



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 14:

(21) International Publication Number:

WO 93/16178

C12N 15/11, C12Q 1/68

A2

(43) International Publication Date:

19 August 1993 (19.08.93)

(21) International Application Number:

PCT/US93/01294

(22) International Filing Date:

12 February 1993 (12.02.93)

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(30) Priority data:

07/837,195

12 February 1992 (12.02.92) US

(81) Designated States: AU, CA, JP, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).

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Published

Without international search report and to be republished upon receipt of that report.

(54) Title: SEQUENCES CHARACTERISTIC OF HUMAN GENE TRANSCRIPTION PRODUCT

(57) Abstract

Partial and complete human cDNA and genomic sequences corresponding to particular expressed sequence tags (ESTs). The ESTs are cDNA sequences that are generally between 150 and 500 base pairs in length, are derived from human brain cDNA libraries, correspond to genes transcribed in human brain, and have base sequences identified herein as SEQ ID NOS: 1-2421.

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SEQUENCES CHARACTERISTIC OF HUMAN GENE TRANSCRIPTION PRODUCT

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Technical Field

The present invention relates to newly identified polynucleotide sequences corresponding to transcription products of human genes, and to complete gene sequences associated therewith.

Background

This invention relates to human genes. Identification and sequencing of human genes is a major goal of modern scientific research. The sequence of human genes is more just a scientific curiosity. For example, by identifying genes and determining their sequences, scientists have been able to make large quantities of valuable human "gene products." These include human insulin, interferon, Factor VIII, tumor necrosis factor, human growth hormone, tissue plasminogen activator, and numerous other compounds. Additionally, knowledge of gene sequences can provide the key to treatment or cure of genetic diseases (such as muscular dystrophy and cystic fibrosis). The present invention represents a quantum leap forward in mankind's knowledge of human gene sequences.

There are several basic concepts of molecular biology which figure prominently in the invention. A brief explanation of those concepts follows. Additional background information and definitions for scientific terms can be found

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in the literature. See, for example, "Glossary of Genetics, Classical and Molecular" by R. Rieger, A. Michaelis, and M.M. Green (Fifth Edition, Springer-Verlag, New York (1991)). The contents of this and other publications cited in the specification are incorporated by reference herein.

At an initial level, the present invention is based on identification and characterization of gene segments. Genes are the basic units of inheritance. Each gene is a string of connected bases called nucleotides. Most genes are formed of deoxyribonucleic acid, DNA. (Some viruses contain genes of ribonucleic acid, RNA.) The genetic information resides in the particular sequence in which the bases are arranged. A short sequence of nucleotides is often called a polynucleotide or an oligonucleotide.

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Like genes, polypeptides are built from long strings of individual units. These units are amino acids. The nucleotide sequence of a gene tells the cell the sequence in which to arrange the amino acids to make the polypeptide encoded by that gene. In general, chains of up to about 200 amino acids are called polypeptides, while proteins are larger molecules made up of polypeptide subunits; both types of molecules are referred to generally herein as polypeptides. A triplet of nucleotides (codon) in DNA codes for each amino acid or signals the beginning or end of the message (anticodon). The term codon is also used for the corresponding (and complementary) sequences of three nucleotides in the mRNA into which the original DNA sequence is transcribed.

Generally, enzymes in the cell transcribe the permanent DNA of the gene into a temporary RNA copy, called messenger RNA or mRNA. The mRNA, in turn, can be translated into a polypeptide by the cell. This entire process is called gene expression, and the polypeptide is the gene product encoded by the gene.

Scientists have previously discovered how to reverse the transcription process and copy mRNA back into DNA using an

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enzyme called reverse transcriptase. The resulting is called complementary DNA, or cDNA. This is schematically shown in the single Figure. When substantially all of the mRNA from one cell or tissue is converted to cDNA at once and cloned into multiple copies of a recombinant vector to allow replication and manipulation in the laboratory, the result is called a cDNA library.

The various types of genes include those which code for polypeptides, those which are transcribed into RNA but are not translated into polypeptides, and those whose functional significance does not demand that they be transcribed at all. Most genes are found on large molecules of DNA located in Double cDNA carries all stranded chromosomes. Each base of the first strand is information of a gene. joined to a complementary base (hybridized) in the second strand. linear DNA molecules in chromosomes have genes distributed along their length. thousands of include both coding regions (coding Chromosomes polypeptides) and noncoding regions; the coding regions represent only about three percent of the total chromosome sequence.

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An individual gene has regulatory regions that include a promoter which directs expression of the gene, a coding region which can code for a polypeptide, and a termination signal. The regulatory DNA sequence is usually a noncoding region that determines if, where, when, and at what level a particular gene is expressed.

The coding regions of many genes are discontinuous, with coding sequences (exons) alternating with noncoding regions (introns). The final mRNA copy of the gene does not include these introns (which can be much longer than the coding region itself), although it does contain certain untranslated regions that usually do not code for the polynucleotide gene product. Untranslated sequences at the beginning and end of the mRNA are known as 5'- and 3'-untranslated regions,

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respectively. This nomenclature reflects the orientation of the nucleotide constituents of the mRNA.

A cDNA is a DNA copy of a messenger RNA, which contains all of the exons of a gene. The cDNA can be thought of as having three parts: an untranslated 5' leader, an uninterrupted polypeptide-coding sequence, and a untranslated region. The untranslated leader and trailing sequences are important for initiation of translation, mRNA stability, and other functions. The untranslated leader and trailing sequences are called 5'- and 3'-untranslated The 3' untranslated sequence is sequences, respectively. usually longer than the 5' untranslated leader, and can be than the polypeptide-coding sequence. untranslated regions typically have many, randomlydistributed stop codons, and do not display the nonrandom base arrangements found in coding sequences. The 5'untranslated sequence is relatively short, generally between 20 and 200 bases. The 3'-untranslated sequence is often many times longer, up to several thousand bases.

The translated or coding sequence begins with a translational start codon (AUG or GUG) and ends with a translational stop codon (UAA, UGA, or UAG). Generally, translation begins at the first "start" codon on the mRNA and proceeds to the first "stop" codon. Coding sequences can be distinguished by their nonrandom distribution of bases; numerous computer algorithms have been developed to distinguish coding from noncoding regions in this way.

Human DNA differs from person to person. No two persons (except perhaps identical twins) have identical DNA. While the differences, called allelic variations or polymorphisms, are slight on a molecular level, they account for most of the physical and other observable differences between individuals. It has been estimated that approximately 14 million sequence polymorphism differences exist between individuals.

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The ability of one strand of DNA to attach or hybridize to a complementary strand has already been exploited for several purposes. For example, small pieces of DNA (15 to 25 base pairs long) can be made which will hybridize to longer strands of DNA which have a complementary sequence. short "primers" can be selected such that they hybridize to a specific, unique location on the longer strand. Once the primers have hybridized to their target on the DNA, the polymerase chain reaction (PCR) can be employed to generate millions of copies of (or amplify) the particular segment of DNA between the locations to which two primers are bound. Briefly, this technique allows amplification of a DNA region situated between two convergent primers, oligonucleotide primers that hybridize to opposite strands. Primer extension proceeds inward across the region between the two primers, and the product of DNA synthesis of one primer serves as a template for the other primer. Repeated cycles of DNA denaturation, annealing of primers, extension result in an exponential increase in the number of copies of the region bounded by the primers.

Similarly, a labeled segment of single-stranded DNA can be hybridized to a longer DNA sequence, such as a chromosome, to mark a specific location on the longer sequence. Segments of DNA 50 bases long or longer that hybridize to a unique DNA location in the human genome are extremely unlikely to hybridize elsewhere in the human genome.

The Human Genome Project is an effort to sequence all human DNA (the human genome). The human genome is estimated to comprise 50,000 - 100,000 genes, up to 30,000 of which might be expressed in the brain (Sutcliffe, Ann. Rev. Neurosci. 11:157 (1988)). Once dedicated human chromosome sequencing begins in three to five years, it was expected that 12-15 years will be required to complete the sequence of the genome (Report of the Ad Hoc Program Advisory Committee on Complex Genomes, Restor, Va., Feb. 1988, D. Baltimore Ed. (NIH, Bethesda, Md, 1988)). At that rate, the majority of

human genes would remain unknown for at least the next decade. The present invention can greatly accelerate the pace at which human genes can be identified and mapped. Most gene researchers, in conjunction with publication of their results in this field, submit sequence data to the GenBank database. Prior to the present invention, GenBank listed the sequences of only a few thousand human genes and less than two hundred human brain mRNAs (GenBank Release 66.0, December, 1990).

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The role of sequencing complementary DNA (cDNA), reverse transcribed from mRNA, as a part of the human genome project has been vigorously debated since the idea of determining the complete nucleotide sequence of humans first surfaced. coding sequence of all human genes represents most of the information content of the genome, but only 3-5% of the total DNA. In contrast, cDNA (which is only made from the transcription product of active genes) is one-half to threeremainder being 5'fourths (the and 3'-untranslated sequence) meaningful genetic information. Thus, some have argued that cDNA sequencing should take precedence over genomic sequencing (Brenner, CIBA Found. Symp. 149:6 (1990)). However, until now, such arguments have not been heeded.

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Genomic sequencing proponents have argued the difficulty of finding every mRNA expressed in all tissues, cell types, and developmental states, and that much valuable information from intronic and intergenic regions, including control and regulatory sequences, will be missed by cDNA sequencing. (Report of the Committee on Mapping and Sequencing the Human Genome, National Research Council (National Academy Press, Washington, D.C. 1988)). Further, sequencing of transcribed regions of the genome using cDNA libraries has heretofore been considered impractical or unsatisfactory. Libraries of cDNA were believed to be dominated by repetitive elements, mitochondrial genes, ribosomal RNA genes, and other nuclear genes comprising common or housekeeping sequences. It was believed that cDNA libraries would provide few sequences

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corresponding to structural and regulatory polypeptides or peptides. See, for example, Putney, et al., Nature 302:718-721 (1983). Putney, et al. sequenced over 150 clones from a rabbit muscle cDNA library and identified clones for 13 of the 19 known muscle polypeptides, including one new isotype but no unknown coding sequences.

Another perceived drawback of cDNA sequencing was that some mRNAs are abundant, and some are rare. The cellular quantities of mRNA from various genes can vary by several orders of magnitude. This led critics to believe that most information obtained from cDNA sequencing would be repetitious and useless.

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The present invention demonstrates that, despite such skepticism, cDNA sequencing now provides a rapid method for obtaining enormous amounts of valuable genetic information and DNA products of great utility for the biotechnology and pharmaceutical industries. Not only can many distinct cDNAs be isolated and sequenced, even partial cDNAs can be used, with conventional, well-understood methods, to isolate entire genes, and to determine the chromosomal locations and biological functions of these genes. As is demonstrated here, fragments of only a few hundred bases are sufficient, in many cases, to identify the probable function of a new human gene if it is similar in structure to a gene from another animal, or from plants or bacteria. Similarly, even fragments of untranslated regions of a cDNA can be used to: i) isolate the coding sequence of the cDNA; ii) isolate the complete gene; iii) determine the position of the gene on a human chromosome, and hence the potential of the gene to cause a human genetic disease; and iv) determine the function of the gene by means of experiments in which the function of the native gene is disrupted by the addition of a short DNA fragment to the cell, e.g., using triple helix or antisense probes.

Because coding regions comprise such a small portion of the human genome, identification and mapping of transcribed

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regions and coding regions of chromosomes is of significant interest. There is a corresponding need for reagents for identifying and marking coding regions and transcribed regions of chromosomes. Furthermore, such human sequences are valuable for chromosome mapping, human identification, identification of tissue type and origin, forensic identification, and locating disease-associated genes (i.e., genes that are associated with an inherited human disease, whether through mutation, deletion, or faulty gene expression) on the chromosome.

SUMMARY OF THE INVENTION

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Contrary to the expectations of the scientific community, cDNA screening and sequencing techniques have now been used to discover a large number of heretofore unknown human genes. Disclosed herein are over 2,400 new human polynucleotide sequences. These sequences could represent up to 5% of all human genes. The novelty of these sequences has been established through comparison to both nucleotide sequence databases and amino acid sequence databases. Surprisingly, over 80% of the sequences generated were unrelated to any sequences previously described in the literature.

The sequences of the present invention were ascertained using a fast approach to cDNA characterization. This approach could facilitate the tagging of most expressed human genes within a few years at a fraction of the cost of complete genomic sequencing, provide new genetic markers, provide new DNA-based therapeutics and diagnostics, and provide other valuable nucleotide reagents.

The sequences disclosed herein, styled Expressed Sequence Tags ("ESTs"), are markers for human genes actually transcribed in vivo. Techniques are disclosed for using these ESTs to obtain the full coding region of the corresponding gene. The use of ESTs, complete coding sequences, or fragments thereof for marking chromosomes, for

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mapping locations of expressed genes on chromosomes, for individual or forensic identification, for mapping locations of disease-associated genes, for identification of tissue type, and for preparation of antisense sequences, probes, and constructs is discussed in detail below. Unlike the random genomic DNA sequence tagged sites (STSs) (Olson et al., Science 245:1434 (1989)), ESTs point directly to expressed genes.

Various aspects of the present invention thus include the individual ESTs, corresponding partial and complete cDNA, genomic DNA, mRNA, antisense strands, triple helix probes, PCR primers, coding regions, and constructs. Also, where one skilled in the art is enabled by this specification to prepare expression vectors and polypeptide expression products, they are also within the scope of the present invention, along with antibodies, especially monoclonal antibodies, to such expression products.

BRIEF DESCRIPTION OF THE DRAWING

The single drawing Figure schematically illustrates the progression from chromosome to gene to mRNA to cDNA.

DETAILED DESCRIPTION OF THE INVENTION

The detailed description that follows provides not only the actual sequence of each new EST, but also explains how the ESTs were obtained, how to obtain the corresponding complete cDNA sequence and the corresponding genomic DNA sequence, how to make DNA constructs from the ESTs and corresponding sequences, how to use those sequences as reagents in molecular biology and other fields, how to produce gene products from the ESTs and corresponding sequences and antibodies to those gene products, and the functional categories of many ESTs and corresponding genes. Furthermore, numerous actual working examples and predictive

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examples are provided to demonstrate and exemplify numerous aspects of the invention.

I. ESTs from cDNA Libraries

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The sequences of the present invention were isolated from commercially available and custom made cDNA libraries. using a rapid screening and sequencing technique. general, the method comprises applying conventional automated DNA sequencing technology to screening clones, advantageously randomly selected clones, from a cDNA library. Preferably, the library is initially "enriched" through removal of ribosomal sequences and other common sequences prior to clone According to the present method, ESTs are generated from partial DNA sequencing of the selected clones. The ESTs of the present invention were generated using low redundancy of sequencing, typically a single sequencing reaction. While single sequencing reactions may have an accuracy as low as 97%, this nevertheless provides sufficient fidelity for identification of the sequence and design of PCR primers.

Most human genes can be identified by EST sequencing from libraries of cDNA copies of messenger RNAs. However, some genes are expressed only at specific times during embryonic development, or only in small amounts in a few specific cell types. Other genes have mRNAs that are degraded very quickly by the cell in which they are expressed. If any of these are the case, transcripts of the gene will not be represented in cDNA libraries so the gene will not be identifiable by EST sequencing. A new method called "exon amplification", however, can be used to isolate and identify transcripts of such genes.

Exon amplification works by artificially expressing part or all of a gene that is contained in a cloned fragment of genomic DNA such as a tosmid or yeast artificial chromosome (YAC). The gene is cloned into a special vector, designed at MIT, that uses control elements from virus genes to express

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the protein-coding exons of the human gene of interest. Exon trapping shows considerable promise as a general technique for identifying those genes in the human genome that cannot be found by cDNA cloning and EST sequencing. amplification will also be useful for identifying the genes in regions of genomic DNA to which disease genes have been mapped. The exon amplification method can be used directly with the cosmid and YAC clones frown human chromosomes that are being obtained by both NIH and DOE supported human genome ESTs comprise DNA sequences corresponding to centers. a portion of nuclear encoded messenger RNA. An EST is of sufficient length to permit: (1) amplification of the specific sequence from a cDNA library, e.g., by polymerase chain reaction (PCR); (2) use of a synthetic polynucleotide corresponding to a partial or complete sequence of the EST as a hybridization probe of a cDNA library, generally having 30 - 50 base pairs; or (3) unique designation of the pure cDNA clone from which the EST was derived (the EST clone) for use as a hybridization probe of a cDNA library. Preferably, ESTderived primer pairs and sequences amplify or detectably hybridize to a sequence from a genomic library.

It has been found that sufficient information is contained in the 150-400 base ESTs from one sequencing run to effect preliminary identification and exact chromosome mapping. Accordingly, the ESTs disclosed herein are generally at least 150 base pairs in length. The length of an EST is determined by the quality of sequencing data and the length of the cloned cDNA. Raw data from the automated sequencers is edited to remove low quality sequence at the end of the sequencing run. High quality sequences (usually a result of sequencing templates without excessive salt contamination) generally give about 400 bp of reliable sequence data; other sequences give fewer bases of reliable data. A 150 bp EST is long enough to be translated into a 50 amino acid peptide sequence. This length is sufficient to observe similarities when they exist in a database search. Furthermore, 150 bp is

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long enough to design PCR primers from each end of the sequence to amplify the complete EST. Sequences shorter than 150 bp are difficult to purify and use following PCR amplification. Furthermore, a 150 bp polynucleotide is likely to give a very strong signal with low background in a screen of a genomic library.

Finally, it is highly unlikely that a sequence of the same 150 bp exists in any genes in the genome besides the one tagged by the EST. Some closely related gene family members have very similar nucleotide sequences, but no examples of pairs of human genes with long segments of identical sequence have been reported to date. For instance, there are three known β -tubulin genes in humans. Several ESTs were found that matched one or another of these tubulin genes, but several new members of this gene family were also found and could be clearly distinguished from the three known members. ESTs that match perfectly to several different genes can be detected by hybridizing to chromosomes: if many chromosomal loci are observed, the sequence (or a close variant) is present in more than one gene. This problem can be circumvented by using the 3'-untranslated part of the cDNA alone as a probe for the chromosomal location or for the full-length cDNA or gene. The 3'-untranslated region is more likely to be unique within gene families, since there is no evolutionary pressure to conserve a coding function of this region of the mRNA.

As demonstrated in the Examples that follow, ESTs can be used to map the expressed sequence to a particular chromosome. In addition, ESTs can be expanded to provide the full coding regions, as detailed below. In this manner, previously unknown genes can be identified.

While a variety of cDNA libraries can be used to obtain ESTs, human brain cDNA libraries are exemplified and represent a preferred embodiment. Suitable cDNA libraries can be freshly prepared or obtained commercially, e.g., as shown in Examples 1, 2, and 11. The cDNA libraries from the

desired tissue are preferably preprocessed by conventional techniques to reduce repeated sequencing of high and intermediate abundance clones and to maximize the chances of finding rare messages from specific cell populations. Preferably, preprocessing includes the use of defined composition prescreening probes, e.g., cDNA corresponding to mitochondria, abundant sequences, ribosomes, actins, myelin basic polypeptides, or any other known high abundance peptide; these prescreening probes used for preprocessing are generally derived from known ESTs. useful Other preprocessing techniques include subtraction, preferentially reduces the population of certain sequences in the library (e.g., see A. Swaroop et al., Nucl. Acids Res. 19, 1954 (1991)), and normalization, which results in all being represented in approximately equal proportions in the library (Patanjali et al. Proc. Natl. Acad. Sci. USA 88:1943 (1991)).

The cDNA libraries used in the present method will ideally use directional cloning methods so that either the 5' end of the cDNA (likely to contain coding sequence) or the 3' end (likely to be a non-coding sequence) can be selectively obtained."

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Libraries of cDNA can also be generated from recombinant expression of genomic DNA. After they are amplified, ESTs can be obtained and sequenced, e.g., as illustrated in Example 11.

The sequences of the present invention include the specific sequences set forth in the Sequence Listing and designated SEQ ID NO: 1 - SEQ ID NO: 2412. In one aspect of this embodiment, the invention relates to those sequences of SEQ ID NOS: 1 - 2412 that comprise the cDNA coding sequences for polypeptides having less than 95% identity with known amino acid sequences (see Table 2) and more preferably less than 90% or 85% identity. In a second aspect, the invention relates to those sequences of SEQ ID NOS: 1 - 2412 that encode polypeptides having no similarity to known amino acid

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sequences (see Examples that follow). Precisely because they do not contain coding regions and are therefore more unique in their sequence structures, those sequences which meet neither of the preceding criteria can be most useful and are generally preferred for mapping.

Consistent with the NIH mission and its responsibilities to disseminate knowledge and share the tangible fruits of its research, the present inventors have taken a number of steps to facilitate sequence data and clone availability. All EST sequences have been submitted to GenBank (representing an addition equivalent to 7% of the human nucleotides in Release 69 of GenBank, September 1991). The corresponding cDNA clones have been submitted to the American Type Culture Collection and information on clones and sequences has been submitted to the Genome Data Base (Pearson, P. Nucl. Acids Res. 19 (Suppl.): 2237-9 (1991)).

II. Complete Coding Sequences from ESTs

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The ESTs of the present invention generally represent relatively small coding regions or untranslated regions of human genes. Although most of these sequences do not code for a complete gene product, the ESTs of the present invention are highly specific markers for the corresponding complete coding regions. The ESTs are of sufficient length that they will hybridize, under stringent conditions, only with DNA for that gene to which they correspond. stringent conditions comprise conditions, for example, where at least 95%, preferably at least 97% or 98% identity (base pairing), is required for hybridization. This property permits use of the EST to isolate the entire coding region and even the entire sequence. Therefore, only routine laboratory work is necessary to parlay the unique EST sequence into the corresponding unique complete sequence.

Thus, each of the ESTs of the present invention "corresponds" to a particular unique human gene. Knowledge:

of the EST sequence permits routine isolation and sequencing of the complete coding sequence of the corresponding gene. The complete coding sequence is present in a full-length cDNA clone as well as in the gene carried on genomic clones. Therefore, each EST "corresponds" to a cDNA (from which the EST was derived), a complete genomic gene sequence, a polypeptide coding region (which can be obtained either from the cDNA or genomic DNA), and a polypeptide or amino acid sequence encoded by that region.

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The first step in determining where an EST is located in the cDNA is to analyze the EST for the presence of coding sequence, e.g., as described in Example 14. The CRM program predicts the extent and orientation of the coding region of a sequence. Based on this information, one can infer the presence of start or stop codons within a sequence and whether the sequence is completely coding or completely non-coding. If start or stop codons are present, then the EST can cover both part of the 5'-untranslated or 3'-untranslated part of the mRNA (respectively) as well as part of the coding sequence. If no coding sequence is present, it is likely that the EST is derived from the 3'-untranslated sequence due to its longer length and the fact that most cDNA library construction methods are biased toward the 3' end of the mRNA.

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One general procedure for obtaining complete sequences from ESTs is as follows:

- 1. Purify selected human DNA from an EST clone (the cDNA clone that was sequenced to give the EST), e.g., by endonuclease digestion using ECOR1, gel electrophoresis, and isolation of the aforementioned clone by removal from low-melting agarose gel.
- 2. Radiolabel the isolated insert DNA, e.g., with ³²P labels, preferably by nick translation or random primer labeling.
- 3. Use the labeled EST insert as a probe to screen a lambda phage cDNA library or a plasmid cDNA library.

4. Identify colonies containing clones related to the probe cDNA and purify them by known purification methods.

- 5. Nucleotide sequence the ends of the newly purified clones to identify full length sequences.
- 6. Perform complete sequencing of full length clones by Exonuclease III digestion or primer walking. Northern blots of the mRNA from various tissues using at least part of the EST clone as a probe can optionally be performed to check the size of the mRNA against that of the purported full length cDNA.

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An EST is a specific tag for a messenger RNA molecule. The complete sequence of that messenger RNA, in the form of cDNA, can be determined using the EST as a probe to identify a cDNA clone corresponding to a full-length transcript, followed by sequencing of that clone. The EST or the full-length cDNA clone can also be used as a probe to identify a genomic clone or clones that contain the complete gene including regulatory and promoter regions, exons, and introns.

ESTs are used as probes to identify the cDNA clones from which an EST was derived. ESTs, or portions thereof, can be nick-translated or end-labelled with P32 using polynucleotide kinase using labelling methods known to those with skill in the art (Basic Methods in Molecular Biology, L.G. Davis, M.D. Dibner, and J.F. Battey, ed., Elsevier Press, NY, 1986). The lambda library can be directly screened with the labelled ESTs of interest or the library can be converted en masse to pBluescript (Stratagene, La Jolla, California) to facilitate: bacterial colony screening. Both methods are well known in the art. Briefly, filters with bacterial colonies containing the library in pBluescript or bacterial lawns containing lambda plaques are denatured and the DNA is fixed to the filters. The filters are hybridized with the labelled probe using hybridization conditions described by Davis et al. The ESTs, cloned into lambda or pBluescript, can be used as positive controls to assess background binding and to adjust

the hybridization and washing stringencies necessary for accurate clone identification. The resulting autoradiograms are compared to duplicate plates of colonies or plaques; each exposed spot corresponds to a positive colony or plaque. The colonies or plaques are selected, expanded and the DNA is isolated from the colonies for further analysis and sequencing.

The ESTs can additionally be used to screen Northern blots of mRNA obtained from various tissues or cell cultures, including the tissue of origin of the EST clone. Northern analysis will most often produce one to several positive bands. The bands can be selected for further study based on the predicted size of the mRNA.

Positive cDNA clones in phage lambda are analyzed to determine the amount of additional sequence they contain using PCR with one primer from the EST and the other primer from the vector. Clones with a larger vector-insert PCR product than the original EST clone are analyzed by restriction digestion and DNA sequencing to determine whether they contain an insert of the same size or similar as the mRNA size on a Northern blot.

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Once one or more overlapping cDNA clones are identified, the complete sequence of the clones can be determined. The preferred method is to use exonuclease III digestion (McCombie, W.R., Kirkness, E., Fleming, J.T., Kerlavage, A.R., Iovannisci, D.M., and Martin-Gallardo, R., Methods: 3: 33-40, 1991). A series of deletion clones is generated, each of which is sequenced. The resulting overlapping sequences are assembled into a single contiguous sequence of high redundancy (usually three to five overlapping sequences at each nucleotide position), resulting in a highly accurate final sequence.

A similar screening and clone selection approach can be applied to obtaining cosmid or lambda clones from a genomic DNA library that contains the complete gene from which the EST was derived (Kirkness, E.F., Kusiak, J.W., Menninger, J.,

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Gocayne, J.D., Ward, D.C., and Venter, J.C. Genomics 10: 985-995 (1991). Although the process is much more laborious, these genomic clones can be sequenced in their entirety also. A shotgun approach is preferred to sequencing clones with inserts longer than 10 kb (genomic cosmid and lambda clones). In shotgun sequencing, the clone is randomly broken into many small pieces, each of which is partially sequenced. The sequence fragments are then aligned to produce the final contiguous sequence with high redundancy. An intermediate approach is to sequence just the promoter region and the intron-exon boundaries and to estimate the size of the introns by restriction endonuclease digestion (ibid.).

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Using the sequence information provided herein, the polynucleotides of the present invention can be derived from natural sources or synthesized using known methods. sequences falling within the scope of the present invention are not limited to the specific sequences described, but include human allelic and species variations thereof and portions thereof of at least 15-18 bases. (Sequences of at least 15-18 bases can be used, for example, as PCR primers or In addition, the invention includes the as DNA probes.) coding sequence associated with the specific polynucleotide sequence of bases described in the Sequence Listing, as well as portions of the entire coding sequence of at least 15-18 bases and allelic and species variations thereof. Furthermore, to accommodate codon variability, the invention includes sequences coding for the same amino acid sequences as do the specific sequences disclosed herein. Finally, although the error rate in the automated sequencing used in the present invention is small, there remains some chance of error. Therefore, claims to particular sequences should not be so narrowly construed as to require inclusion of erroneously identified bases or to exclude corrections.

Any specific sequence disclosed herein can be readily screened for errors by resequencing each EST in both directions (i.e., sequence both strands of cDNA).

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The sequences, constructs, vectors, clones, and other materials comprising the present invention can advantageously be in enriched or isolated form. As used herein, "enriched" means that the concentration of the material is at least about 2, 5, 10, 100, or 1000 times its natural concentration (for example), advantageously 0.01%, by weight, preferably at least about 0.1% by weight. Enriched preparations of about 0.5%, 1%, 5%, 10%, and 20% by weight are also contemplated. Further, removal of clones corresponding to ribosomal RNA and "housekeeping" genes and clones without human cDNA inserts results in a library that is "enriched" in the desired clones.

The term "isolated" requires that the material be removed from its original environment (e.g., the natural environment if it is naturally occurring). For example, a naturally-occurring polynucleotide present in a living animal is not isolated, but the same polynucleotide, separated from some or all of the coexisting materials in the natural system, is isolated.

It is also advantageous that the sequences be in purified form. The term "purified" does not require absolute purity; rather, it is intended as a relative definition. Individual EST clones isolated from a cDNA library have been conventionally purified to electrophoretic homogeneity. The sequences obtained from these clones could not be obtained directly either from the library or from total human DNA. The cDNA clones are not naturally occurring as such, but rather are obtained via manipulation of a partially purified naturally occurring substance (messenger conversion of mRNA into a cDNA library involves the creation of a synthetic substance (cDNA) and pure individual cDNA clones can be isolated from the synthetic library by clonal selection. Thus, creating a cDNA library from messenger RNA and subsequently isolating individual clones from that library results in an approximately 106-fold purification of the native message. Purification of starting material or

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natural material to at least one order of magnitude, preferably two or three orders, and more preferably four or five orders of magnitude is expressly contemplated.

In a cDNA library there are many species of mRNA represented. Each cDNA clone can be interesting in its own right, but must be isolated from the library before further experimentation can be completed. In order to sequence any specific cDNA, it must be removed and separated (i.e. isolated and purified) from all the other sequences. This can be accomplished by many techniques known to those of skill in the art. These procedures normally involve identification of a bacterial colony containing the cDNA of interest and further amplification of that bacteria. Once a cDNA is separated from the mixed clone library, it can be used as a template for further procedures such as nucleotide sequencing.

Although claims to large numbers of ESTs and corresponding sequences are presented herein, the invention is not limited to these particular groupings of sequences. Thus, individual sequences are considered as applicants' discoveries or inventions, as are subgroupings of sequences. All of the functional subgroupings set forth in the tables define groupings for which separate claims are contemplated as being within the scope of this invention. Moreover, in addition to claims to individual clones, it is intended that the present disclosure also support claims to numerical subgroupings. Thus, subgroupings of 50 ESTs corresponding sequences) are contemplated (e.g., SEQ ID NOS 1-50, 51-100, 101-150, etc.) as being within the scope of this invention, as are subgroupings of 5, 10, 25, 100, 200, and 500 ESTs and corresponding sequences.

III. DNA Constructs

The present invention also includes recombinant constructs comprising one or more of the sequences as broadly described above. The constructs comprise a vector, such as

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a plasmid or viral vector, into which a sequence of the invention has been inserted, in a sense or antisense orientation. In a preferred aspect of this embodiment, the construct further comprises regulatory sequences, including for example, a promoter, operably linked to the sequence. Large numbers of suitable vectors and promoters are known to those of skill in the art, and are commercially available. The following vectors are provided by way of example. Bacterial: pBs, phagescript, \$\phi\$X174, pBluescript SK, pBs KS, pNH8a, pNH16a, pNH18a, pNH46a (Stratagene); pTrc99A, pKK223-3, pKK233-3, pDR540, pRIT5 (Pharmacia).

Eukaryotic: pWLneo, pSV2cat, pOG44, pXT1, pSG (Stratagene); pSVK3, pBPV, pMSG, pSVL (Pharmacia).

Promoter regions can be selected from any desired gene using CAT (chloramphenicol transferase) vectors or other vectors with selectable markers. Two appropriate vectors are pKK232-8 and pCM7. Particular named bacterial promoters include lacI, lacZ, T3, T7, gpt, lambda P_R , and trc. Eukaryotic promoters include CMV immediate early, HSV thymidine kinase, early and late SV40, LTRs from retrovirus, and mouse metallothionein-I. Selection of the appropriate vector and promoter is well within the level of ordinary skill in the art.

In a further embodiment, the present invention relates to host cells containing the above-described construct. The host cell can be a higher eukaryotic cell, such as a mammalian cell, or a lower eukaryotic cell, such as a yeast cell, or the host cell can be a procaryotic cell, such as a bacterial cell. Introduction of the construct into the host cell can be effected by calcium phosphate transfection, DEAE dextran mediated transfection, or electroporation (Davis, L., Dibner, M., Battey, I., Basic Methods in Molecular Biology, (1986)).

The constructs in host cells can be used in a conventional manner to produce the gene product coded by the recombinant sequence. Alternatively, the encoded polypeptide

can be synthetically produced by conventional peptide synthesizers.

Certain ESTs have already been preliminarily categorized by analogy to related sequences in other organisms (see Table 2). Table 10 of Example 10 categorizes particular ESTs broadly as metabolic, regulatory, and structural sequences where known. Constructs comprising genes or coding sequences corresponding to each of these categories are, therefore, specifically and individually contemplated.

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Table 11 more particularly separates 127 new ESTs into 13 categories using a different criteria. These are genes related to cell surface; developmental control; energy metabolism; kinase and phosphatase; oncogenes; metabolism-related polypeptides; peptidases and peptidase inhibitors; receptors; structural and cytoskeletal; signal transduction; transporters; transcription, translation, and subcellular localization; and transcription factors. Table 11 further identifies the EST by the particular gene product for which it apparently codes. Each of these categories individually comprises a preferred category of EST, and preferred constructs and resulting polypeptide can be prepared from those ESTs or the corresponding complete gene sequence.

25 IV. ESTs and Corresponding Sequences as Reagents

Each of the cDNA sequences identified herein (and the corresponding complete gene sequences) can be used in numerous ways as polynucleotide reagents. The sequences can be used as diagnostic probes for the presence of a specific mRNA in a particular cell type. In addition, these sequences can be used as diagnostic probes suitable for use in genetic linkage analysis (polymorphisms). Further, the sequences can be used as probes for locating gene regions associated with genetic disease, as explained in more detail below.

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The EST and complete gene sequences of the present invention are also valuable for chromosome identification.

Each sequence is specifically targeted to and can hybridize with a particular location on an individual human chromosome. Moreover, there is a current need for identifying particular sites on the chromosome. Few chromosome marking reagents based on actual sequence data (repeat polymorphisms) are presently available for marking chromosomal location. The present invention constitutes a major expansion of available chromosome markers. One hundred ESTS have already been mapped to chromosomes. Using the techniques described in Example 5 or 6, the remaining ESTs and the corresponding complete sequences can similarly be mapped to chromosomes. The mapping of ESTs and cDNAs to chromosomes according to the present invention is an important first step in correlating those sequences with genes associated with disease.

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Briefly, sequences can be mapped to chromosomes by preparing PCR primers (preferably 15-25 bp) from the ESTs. Computer analysis of the ESTs is used to rapidly select primers that do not span more than one exon in the genomic DNA, thus complicating the amplification process. These primers are then used for PCR screening of somatic cell hybrids containing individual human chromosomes. Only those hybrids containing the human gene corresponding to the EST will yield an amplified fragment.

PCR mapping of somatic cell hybrids is a rapid procedure for assigning a particular EST to a particular chromosome. Three or more clones can be assigned per day using a single thermal cycler. Using the present invention with the same oligonucleotide primers, sublocalization can be achieved with panels of fragments from specific chromosomes or pools of large genomic clones in an analogous manner. Other mapping strategies that can similarly be used to map an EST to its chromosome include in situ hybridization, prescreening with labeled flow-sorted chromosomes and preselection by hybridization to construct chromosome specific cDNA libraries. Results of mapping ESTs to chromosomal segments are listed in Tables 3 and 4.

Fluorescence in situ hybridization (FISH) of a cDNA clone to a metaphase chromosomal spread can be used to provide a precise chromosomal location in one step. This technique can be used with cDNA as short as 500 or 600 bases; however, clones larger than 2,000 bp have a higher likelihood of binding to a unique chromosomal location with sufficient signal intensity for simple detection. FISH requires use of the clone from which the EST was derived, and the longer the better. 2,000 bp is good, 4,000 is better, and more than 4,000 is probably not necessary to get good results a reasonable percentage of the time. For a review of this technique, see Verma et al., Human Chromosomes: a Manual of Basic Techniques. Pergamon Press, New York (1988).

Reagents for chromosome mapping can be used individually (to mark a single chromosome or a single site on that chromosome) or as panels of reagents (for marking multiple sites and/or multiple chromosomes). Reagents corresponding to noncoding regions of the genes actually are preferred for mapping purposes. Coding sequences are more likely to be conserved within gene families, thus increasing the chance of cross hybridizations during chromosomal mapping (see Tables 8 and 9).

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Once a sequence has been mapped to a precise chromosomal location, the physical position of the sequence on the chromosome can be correlated with genetic map data. (Such data are found, for example, in V. McKusick, Mendelian Inheritance in Man (available on line through Johns Hopkins University Welch Medical Library).) The relationship between genes and diseases that have been mapped to the same chromosomal region are then identified through linkage analysis (coinheritance of physically adjacent genes).

Next, it is necessary to determine the differences in the cDNA or genomic sequence between affected and unaffected individuals. If a mutation is observed in some or all of the affected individuals but not in any normal individuals, then

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the mutation is likely to be the causative agent of the disease.

With current resolution of physical mapping and genetic mapping techniques, a cDNA precisely localized to a chromosomal region associated with the disease could be one of between 50 and 500 potential causative genes. (This assumes 1 megabase mapping resolution and one gene per 20 kb.)

Comparison of affected and unaffected individuals generally involves first looking for structural alterations in the chromosomes, such as deletions or translocations that are visible from chromosome spreads or detectable using PCR based on that cDNA sequence. Ultimately, complete sequencing of genes from several individuals is required to confirm the presence of a mutation and to distinguish mutations from polymorphisms.

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In addition to the foregoing, the sequences of the invention, as broadly described, can be used to control gene expression through triple helix formation or antisense DNA or RNA, both of which methods are based on binding of a polynucleotide sequence to DNA or RNA. Polynucleotides suitable for use in these methods are usually 20 to 40 bases in length and are designed to be complementary to a region of the gene involved in transcription (triple helix - see Lee et al, Nucl. Acids Res. 6: 3073 (1979); Cooney et al, Science 241: 456 (1988); and Dervan et al, Science 251: 1360 (1991)) or to the mRNA itself (antisense - Okano, J. Neurochem. 56: 560 (1991); Oligodeoxynucleotides as Antisense Inhibitors of Gene Expression, CRC Press, Boca Raton, FL (1988)). helix formation optimally results in a shut-off of RNA transcription from DNA, while antisense RNA hybridization blocks translation of an mRNA molecule into polypeptide. Both techniques have been demonstrated to be efficient in model systems. Information contained in the sequences of the present invention is necessary for the design of an antisense or triple helix oligonucleotide.

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The present invention is also useful tool in gene therapy, which requires isolation of the disease-associated gene in question as a prerequisite to the insertion of a normal gene into an organism to correct a genetic defect. He high specificity of the cDNA probes according to this invention have promise of targeting such gene locations in a highly accurate manner.

The sequences of the present invention, as broadly defined, are also useful for identification of individuals from minute biological samples. The United States military, for example, is considering the use of restriction fragment length polymorphism (RFLP) for identification of its personnel. In this technique, an individual's genomic DNA is digested with one or more restriction enzymes, and probed on a Southern blot to yield unique bands for identifying personnel. This method does not suffer from the current limitations of "Dog Tags" which can be lost, switched, or stolen, making positive identification difficult. The sequences of the present invention are useful as additional DNA markers for RFLP.

However, RFLP is a pattern based technique, which does not directly focus on the actual DNA sequence of the individual. The sequences of the present invention can be used to provide an alternative technique that determines the actual base-by-base DNA sequence of selected portions of an individual's genome. These sequences can be used to prepare PCR primers for amplifying and isolating such selected DNA. One can, for example, take an EST of the invention and prepare two PCR primers from the 5' and 3' ends of the EST. These are used to amplify an individual's DNA, corresponding to the EST. The amplified DNA is sequenced.

Panels of corresponding DNA sequences from individuals, made this way, can provide unique individual identifications, as each individual will have a unique set of such DNA sequences, due to allelic differences. The sequences of the present invention can be used to particular advantage to

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obtain such identification sequences from individuals and from tissue, as explained in Examples 12 - 14.

The EST sequences from Examples 1 and 2 and the complete sequences from Example 13 uniquely represent portions of the human genome. Allelic variation occurs to some degree in the coding regions of these sequences, and to a greater degree in the noncoding regions. It is estimated that allelic variation between individual humans occurs with a frequency of about once per each 500 bases. Each of the ESTs or complete coding sequences comprising a part of the present invention can, to some degree, be used as a standard against individual can be compared for which DNA from an identification purposes. Because greater numbers of polymorphisms occur in the noncoding regions, fewer sequences are necessary to differentiate individuals. The noncoding sequences of Table 9 for example, could comfortably provide positive individual identification with a panel of perhaps 100 to 1,000 primers which each yield a noncoding amplified sequence of 100 bp. If predicted coding sequences, such as those from Table 6, are used, a more appropriate number of primers for positive individual identification would be 500-2,000.

If a panel of reagents from ESTs or complete sequences of this invention is used to generate a unique ID database for an individual, those same reagents can later be used to identify tissue from that individual. Positive identification of that individual, living or dead can be made from extremely small tissue samples.

Another use for DNA-based identification techniques is in forensic biology. PCR technology can be used to amplify DNA sequences taken from very small biological samples such as tissues, e.g., hair or skin, or body fluids, e.g., blood, saliva, semen, etc. In one prior art technique, gene sequences are amplified at specific loci known to contain a large number of allelic variations, for example the DQQ class II HLA gene (Erlich, H., PCR Technology, Freeman and Co.

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(1992)). Once this specific area of the genome is amplified, it is digested with one or more restriction enzymes to yield an identifying set of bands on a Southern blot probed with DNA corresponding to the DQ α class II HLA gene.

The sequences of the present invention can be used to provide polynucleotide reagents specifically targeted to additional loci in the human genome, and can enhance the reliability of DNA-based forensic identifications. Those sequences targeted to noncoding regions (see, e.g., Tables 8 and 9) are particularly appropriate. As mentioned above, actual base sequence information can be used for identification as an accurate alternative to patterns formed by restriction enzyme generated fragments. Reagents for obtaining such sequence information are within the scope of the present invention. Such reagents can comprise complete ESTs or corresponding coding regions, or fragments of either of at least 15 bp, preferably at least 18 bp.

There is also a need for reagents capable of identifying the source of a particular tissue. Such need arises, for example, in forensics when presented with tissue of unknown origin. Appropriate reagents can comprise, for example, DNA probes or primers specific to particular tissue prepared from the ESTs or complete sequences of the present invention. Panels of such reagents can identify tissue by species and/or by organ type. In a similar fashion, these reagents can be used to screen tissue culture for contamination.

V. Production of Polypeptide Corresponding to ESTs

As previously explained, each EST corresponds not only to a coding region, but also to a polypeptide. Once the coding sequence is known, or the gene is cloned which encodes the polypeptide, conventional techniques in molecular biology can be used to obtain the polypeptide.

At the simplest level, the amino acid sequence encoded by the polynucleotide sequence can be synthesized using commercially available peptide synthesizers. This is

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particularly useful in producing small peptides and fragments of larger polypeptides. (Fragments are useful, for example, in generating antibodies against the native polypeptide.)

Alternatively, the DNA encoding the desired polypeptide can be inserted into a host organism and expressed. organism can be a bacterium, yeast, cell line, multicellular plant or animal. The literature is replete with examples of suitable host organisms and expression techniques. For example, naked polynucleotide (DNA or mRNA) can be injected directly into muscle tissue of mammals, where it is expressed. This methodology can be used to deliver the polypeptide to the animal, or to generate an immune response against a foreign polypeptide. Wolff, et al., Science 247:1465 (1990); Felgner, et al., Nature 349:351 (1991). Alternatively, the coding sequence, together with appropriate regulatory regions (i.e., a construct), can be inserted into a vector, which is then used to transfect a cell. The cell (which may or may not be part of a larger organism) then expresses the polypeptide. (See Example 25.)

Antibodies generated against polypeptide the corresponding to a sequence of the present invention can be obtained by direct injection of the naked polypeptide into an animal (as above) or by administering the polypeptide to an animal, preferably a nonhuman. The antibody so obtained will then bind the polypeptide itself. In this manner, even a sequence encoding only a fragment of the polypeptide can be used to generate antibodies binding the whole native polypeptide. Such antibodies can then be used to isolate the polypeptide from tissue expressing that polypeptide. Moreover, a panel of such antibodies, specific to a large number of polypeptides, can be used to identify and differentiate such tissue.

VI. Examples

Certain aspects of the present invention are described in greater detail in the non-limiting Examples that follow.

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EXAMPLE 1

<u>cDNA Sequences Determined by Random</u> <u>Clone Selection: First set</u>

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METHODOLOGY:

With reference to the data presented in Table 1, lambda ZAP libraries were converted en masse to pBluescript plasmids, transfected into E. coli XL1-Blue cells, and plated on X-gal/IPTG/ampicillin plates. A total of 1058 clones were picked at random from three human brain cDNA libraries: fetal brain, two-year-old hippocampus, and two-year-old temporal cortex (Stratagene catalog #936206, 936205, 935, respectively. Stratagene, 11099 N. Torrey Pines Rd., La Jolla, CA 92037). An analysis of these clones is summarized in Table I (see below) In addition, clones selected from the hippocampus library were also analyzed after subtractive hybridization with the fibroblast library. These results are listed in the "Hippocampus Subtracted" column of Table 1. Templates for DNA sequencing were PCR products or plasmids prepared by the alkaline lysis method. About half of the templates prepared by PCR failed to yield an amplified fragment suitable for sequencing. This was primarily due to use of PCR conditions that minimized the need for further purification of the product but also selected against amplification of long inserts (5 µl fresh or frozen overnight culture of E. coli carrying the pBluescript plasmid, 7.5 μM each dNTP, and 0.1 μM each primer for 35 cycles: 40 sec; 55°C, 40 sec; 72°C, 90 sec). A further percentage of the PCR-generated templates failed to sequence, largely due to primer-dimer or other amplification artifacts. Qiagento improved the percentage of plasmid templates, increasing the yields of usable sequence from about 60% with a standard alkaline lysis protocol to over 90%. Overall, 117 PCR-generated templates and 497 plasmid templates resulted in usable sequence. Dideoxy chain termination sequencing reactions were performed with fluorescent dye-labeled M13

universal or reverse primers. After a cycle sequencing protocol, carried out in a Perkin-Elmer thermal cycler, sequencing reactions were run on an Applied Biosystems, Inc. (Foster City, CA) 373A automated DNA sequencer. (Cycle sequencing was performed in a Perkin Elmer Thermal Cycler for 15 cycles of 95°C, 30 sec; 60°C, 1 sec; 70°C, 60 sec and 15 cycles of 95°C, 30 sec; 70°C, 60 sec with the Applied Biosystems, Inc. Taq Dye Primer Cycle Sequencing Core Kit protocol). Some sequencing reactions were performed on an ABI robotic workstation (Cathcart, Nature 347: 310 (1990) hereby incorporated by reference).

RESULTS:

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Singe-run DNA sequence data were obtained from 609 randomly chosen cDNA clones. The number of clones sequenced from each library is summarized in Table 1. Double-stranded cDNA clones in the pBluescript vector were sequenced by a cycle sequencing protocol with dye-labeled primers and Applied Biosystems, Inc. 373A DNA Sequences. The average length of usable sequence was 397 bases with a standard deviation of 99 bases.

Subtractive hybridization has been used successfully to reduce the population of highly represented sequences in a cDNA library by selectively removing sequences shared by another library. (Schmid and Girou, Neurochem. 48: 307 (1987); Fargnoli et al, Anal. Biochem. 187: 364 (1990); Duguid and Dinauer, Nucl. Acids. Res. 18: 2789 (1990); Schweinfest, et al, Genet. Anal. Techn. Appl. 7: 64 (1990); Travis and Sutcliffe, Proc. Natl. Acad. Sci. USA 85: 1696 (1988); Kato, Eur. J. Neurosci. 2: 704 (1990)). Subtractive hybridization was therefore tested as a way of enhancing the number of brain-specific clones in the hippocampus library by hybridizing the hippocampus library with a WI38 human lung fibroblast cell line cDNA library and removing the common sequences (Schweinfest et al, Genet. Anal. Techn. Appl. 7: 64 (1990); Sive and St. John, Nucl. Acids Res. 16: 10937

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(1988)). Clones from this subtraction are listed in the column "Hippocampus Subtracted" in Table 1.

The EST sequences from this Example 1 are identified as SEQ ID NOs 1-315.

TABLE 1. cDNA Library Composition Determined By Random Clone Secuencing

ex <u>Percent</u>	7. 5. 13. 8 0. 2. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.	-33-
Temporal Cortex	00 <u>1</u> 040 <u>6</u>	28
Fetal Brain <u>Percent</u>	6.5. 8.6. 6.5. 7.5. 6.6. 7.6. 6.6. 6.6. 6.6. 6	
Fet: Number		•
Subtracted	8.6 17.2 6.0 6.0 87.9	9.2
Hippocampus S Number	04rr-33	
ampus <u>Percent</u>	12.8 2.7.4 8.6 8.6 1.7.7	5.
Hippocampus Number	38 8 39 8 30 2 2 2 5 50 5 50 5 50 5 50 5 50 5 50 5	
EST Category	Mitochondrial Genes Repeats: Alu, Line-1, etc. Ribosomal RNA Other Nuclear Genes Database MatchOther Pooly A Insert	No Insert

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EXAMPLE 2

Sequencing of Additional ESTs: Second set

Over 2600 additional cDNA clones have been isolated, partially sequenced and screened. The clones were isolated from four human brain cDNA libraries. The new sequences thus discovered, together with the 315 brain ESTs from Example 1, correspond to over 2400 new human genes. These data represent an approximate doubling of the number of human genes identified by DNA sequencing.

Specifically, four cDNA libraries were used as sources of clones for sequencing. Human hippocampus and fetal brain libraries, plasmid template preparation, reactions, and automated sequencing were performed as described (Adams, M.D., Kelley, J.M., Gocayne, J.D., Dubnick, M., Polymeropoulos, M.H., Xiao, H., Merril, C.R., Wu, A., Olde, B., Moreno, R.F., Kerlavage, A.R., McCombie, W.R., & Venter, J.C. Science, 252: 1651-56 (1991)). A pooled probe consisting of inserts from 10 different EST clones with sequences that matched either mitochondrial genes or the 18S or 28S ribosomal RNAs was used to prescreen a gridded filter array of the hippocampus library; nonhybridizing clones are referred to as the "prescreened library". Another fetal brain library was constructed by and was a gift from Bento Soares (Columbia University). A directionally-cloned library was prepared using the method of Rubenstein, et al. (Rubenstein, J., Elizabeth, A., Brice, A., Ciaranello, R., Denney, D., Porteus, M. & Usdin, T. Nucl. Acids Res. 18: 4833-4842) using human adult brain mRNA purchased from Clontech (Palo Alto, CA; Catalogue # 6516-1). Of 482 clones analyzed by restriction enzyme digestion, 33% contained inserts at least 1500 base pairs in length. Stratagene hippocampus and fetal brain library totals include data from Adams et al Science 252. 1651.

Sequences of nuclear-encoded cDNAs that did not include interspersed repeats (Schmid, C. W. & Jelinek, W. R. Sci nce

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216: 1065-1070 (1982); Paulson, K. E., Deka, N., Schmid, C. W., Misra, R., Schlinder, C. W., Rush, M. G., Kadyk, L., & Leinwand, L. Nature 316: 359-361 (1985); Fanning, T. G. & Singer, M. F. Biochem. Biophys. Acta 910: 203-212 (1987)) were searched against all of GenBank and, in 6-frame translation, against a comprehensive, non-redundant peptide database using the network BLAST (Altschul, S. F., Gish, W., Miller, W., Myers, E.W., & Lipman, D. J. Mol. Biol. 215: (1990)) server at the National Center Biotechnology Information. BLAST output was parsed, and an interactive alignment editor was used to select which matches, if any, from each search to record in a relational EST database, which was developed to track sequencing, identification, tissue localization, physical mapping, and the public distribution of the clones, mapping and sequence data. For significant similarities, a putative gene name and Protein Identification Resource (PIR) gene family identification (Barker, W., George, D., Hunt, Garavelli, J. Nucl. Acids Res. 19 (Suppl): 2231-2236 (1991)) for the EST were assigned. ESTs without significant matches using BLAST were searched in translation against PIR using FASTA. Ten additional marginal matches were found. A total of 2300 new EST sequences comprising 765,505 nucleotides from the current data set have been submitted to GenBank and assigned accession numbers M77851-M79278 and M85308-M86179. All ESTs except those multiply representing actin, tubulin, and myelin basic protein clones were submitted. accession numbers of cDNA clones from which ESTs were derived are 77501-78999 and 81000-81756. The Genome Data Base expressed D-segment numbers for these clones are DOS1E -DOS2422E. The ESTs from this Example are identified herein as SEQ ID NOs 316-2407.

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EXAMPLE 3

EST Characterization: First Set

ESTs including SEQ ID NOs 1-315 were analyzed as Initially, the EST sequences were examined for similarities in the GenBank nucleic acid database (GenBank Release 65.0), Protein Information Resource Release 26.0 (PIR), and ProSite (MacPattern from the EMBL data library, Fuchs R. Comput. Appl. Biosci. 7: 105 (1990) Release 5.0 were used). BLAST was used to search Genbank and the PIR (both maintained by the National Center for Biotechnology Information) ESTs without exact GenBank matches were translated in all six reading frames and each translation was compared with the protein sequence database PIR and the ProSite protein motif database. Comparisons with the ProSite motif database were done by means of the program MacPattern from the EMBL Data Library. GenBank and PIR searches were conducted with the "basic local alignment search tool" programs for nucleotide (BLASTN) and peptide comparisons (Altschul et al, J. Mol. Biol. 215: 403 (1990)). searches were run on the National Center for Biotechnology Information BLAST network service. The BLAST programs contain a very rapid database-searching algorithm that searches for local areas of similarity between two sequences and then extends the alignments on the basis of defined match and mismatch criteria. The algorithm does not consider the potential gaps to improve the alignment, thus sacrificing some sensitivity for a 6-80 fold increase in speed over other database-searching programs such as FASTA (Pegarson and Lipman, Proc. Natl. Acad. Sci. USA, 85: 2444 (1988)).

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Sequence similarities identified by the BLAST programs were considered statistically significant with a Poisson P-value than 0.01. The Poisson P-value less than the probability of as high a score occurring by chance given the number of residues in the query sequence and the database.

After the BLASTN search, 30 unmatched ESTs were compared against GenBank by FASTA to determine if significant matches were missed due to the use of BLASTN for the database search. No additional statistically significant matches were found. Statistical significance does not necessarily mean functional similarity; some of the reported matches may indicate the presence of a conserved domain or motif or simply a common protein structure pattern. Those ESTs identified as fully corresponding to known human genes or proteins are not included in this disclosure. Statistically significant matches are reported in Table 2, together with the length and percent identity or similarity of each alignment.

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On the basis of database searches, 609 EST sequences were classified into eight groups as shown in Table 1 (see Example 1 above). Four groups, with 197 or 32% of the sequences, consist of matches to human sequences: repetitive elements, mitochondrial genes, ribosomal RNA genes, and other nuclear genes. Forty-eight (8%) of the sequences matched non-human entries in GenBank or PIR while 230 (38%) had no significant matches. The remaining 134 (22%) sequences contained no insert or consisted entirely of polyA between the EcoRI cloning sites.

Thirty-six ESTs matched previously sequenced human nuclear genes with more than 97% identity. Four of these ESTs are from genes encoding enzymes involved in maintaining metabolic energy, including ADP/ATP translocase, aldolase C, hexokinase, and phosphoglycerate kinase. Human homologs of genes for the bovine mitochondrial ATP synthase Foß-subunit and porcine aconitase were also found (Table 2). specific cDNAs included synaptophysin, glial fibrillary acidic protein (GFAP), and neurofilament light chain. least six ESTs are from genes encoding proteins involved in signal transduction: 2',3'-cyclic nucleotide phosphodiesterase (2 ESTs), calmodulin, c-erbs- α -2, $G_S\alpha$, and Na^+/K^+ ATPase α -subunit. Other ESTs were matches to genes for ubiquitous structural proteins -- actins, tubulins, and

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fodrin (non-erythroid spectrin). ESTs also document the presence in the hippocampus cDNA library of the ret proto-oncogene, the ras-related gene rhoB, and one of the chromosome 22 breakpoint cluster region transcripts. Eight ESTs are from genes known to be associated with genetic disorders (Online Mendelian Inheritance in Man). More than half of the human-matched ESTs from Example 1 have been mapped to chromosomes, indicating the bias of GenBank entries toward well-studied genes and proteins.

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ESTs without significant GenBank matches were also compared to the ProSite database of recognized protein motifs. Not counting post-translational-modification signatures, fifty-four sequences contained motifs from the database. Some patterns, particularly the "leucine zipper", are found in scores or hundreds of proteins that do not share the functional property implied by the presence of the motif.

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Similarities to sequences from other organisms were also detected in the BLAST searches of GenBank and PIR (Table 2). Several ESTs displayed similarity to "housekeeping" genes, including the ribosomal proteins S10 and L30 (rat) and the EST00257 (SEQ ID NO:77) shows above glycolytic enzymes. strong nucleotide sequence similarity to the squid (67%) and Drosophila (70.4%) kinesin heavy chain. Kinesin was first described as a microtubule-associated motor protein involved in organelle transport in the squid giant axon (Vale et al, Cell 42: 39 (1985)). Six oncogene-related sequences were also among the cDNA clones sequenced. EST00299 (SEO ID NO:180) and EST00283 (SEQ ID NO:271) show similarity to several ras-related genes and EST00248 (SEQ ID NO:102) matched the 3! untranslated region of the bovine substrate of botulinum toxin ADP-ribosyltransferase. Similarities with an S. cerevisiae RNA polymerase subunit and Torpedo electromotor neuron-associated protein were also observed. Two ESTs may represent new members of known human gene families: EST00270 matched the three S-tubulin genes with 88-91% identity and

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EST00271 (SEQ ID NO:248) matched α -actinin with 85% identity at the nucleotide level.

Among the most interesting of the primary sequence relationships was the similarity of ESTs to the Drosophila genes Notch and Enhancer of split. Nucleotide and peptide alignments of EST00256 (SEQ ID NO:188) and EST00259 (SEQ ID NO:227) with the Drosophila genes have been demonstrated. Both genes are part of a signal cascade encoded by the "neurogenic" genes that are involved in the differentiation of neuronal and epidermal cell lineages in the neuroectoderm of the developing Drosophila embryo (Campos-Ortega, Trends in Neuro. Sci. 11: 400 (1988)). It has been proposed that the Enhancer of split protein interacts with a membrane protein is the product of the Notch gene to convert a developmental signal into an altered pattern of expression (id. J. Mol. Biol. 215: 403 (1990)). (SEQ ID NO:188) matches near the 5' end of the Enhancer of split coding sequence, away from the mammalian G protein & subunit- and yeast cdc4-like elements (Hartley et al, Cell 55: 785 (1988); Klambt et al. EMBO J. 8: 203 (1989)). Part of the EST00259 (SEQ ID NO:227) match to Notch in the cdc10/SW16 region that is similar to three cell-cycle control genes in yeast and is tightly conserved in the Xenopus Notch homolog, Xotch. In Drosophila, Enhancer of split is absolutely required for formation of epidermal tissue. Notch contains several epidermal growth factor-like repeats and appears to play a general role in cell-cell communication during development (Banerjee and Zipursky, Neuron 4:177 (1990)).

Seven genes were represented by more than one EST. Comparisons of all the ESTs against one another revealed two overlaps of unknown ESTs: EST00233 (SEQ ID NO:32) and EST00234 (SEQ ID NO:8) match in opposite orientations and EST00235 (SEQ ID NO:204) and EST00236 (SEQ ID NO:148) match in the same orientation beginning at the same nucleotide. Five human genes were represented by more than one EST: ß-

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actin (3), λ -actin (2), α -tubulin (2), α -2-macroglobulin (2), and 2'3'-cyclic-nucleotide-3'-phosphodiesterase (2). Those few instances where two or more ESTs represent different portions of a single cDNA can be readily ascertained when the sequence of the full cDNA insert is determined in accordance with Example 13.

Example 4

EST Sequences Characterization: Second Set

The ESTs of Example 2, including SEQ ID NOS 316-2407, were screened against known sequences listed in GenBank and other databases, as in Example 3. The results are reported in Table 2. The quality of the match is given as percent identity and length in base pairs for nucleotide matches and amino acid residues for peptide matches. In many cases ESTs match multiple domains on several related proteins; for example, EST00825 matches two transmembrane domains on both GABA and Norepinephrine transporters. Nucleotide databases are: GenBank (GB), and EMBL (E); peptide databases are: GenPept (GPU), Swiss-Prot (SP), and PIR.

The great majority (83%) of the partial cDNA sequences reported in Example 2 are unrelated to any sequences previously described in the literature. Based on database matches to known genes from humans as well as from such evolutionarily distant organisms as E. coli, yeast, C. elegans, Drosophila, barley, Arabidopsis, rice, and green algae, we have preliminarily identified the functional type of a number of the ESTs (Table 2). These include a novel gene similar to Notch/Tan-1 (Adams et al., supra), a new neurotransmitter transporter gene, and a new member of the multi-drug resistance gene family. Several genes involved in development or cell differentiation in Drosophila are represented by cimilar human ESTs, including seven in absentia (Carthew, R. & Rubin, G. Cell 63: 561-577-(1990)),

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big-brain (bib) (Rao, Y., Jan, L., & Jan, Y. Nature 345: 163-167 (1990)), the discs tumor suppressor (Woods, D. & Bryant, P. Cell 66: 1-20 (1991)), and the homeotic gene orthodenticle (Finkelstein, R., Smouse, D. Capaci, T., Spradling, A. & Perrimon, N. Genes. Dev. 4: 1516-1527 (1990)). New members of gene families previously known in humans include a Ca⁺²-transporting ATPase, an ADP ribosylation factor, and a new neural-cell adhesion molecule gene.

The 1971 ESTs without a putative identification were analyzed using the coding-region prediction program CRM via the GRAIL server (Uberbacher, E. & Mural, R. Proc. Natl. Acad. Sci. USA 88: 11261-5 (1991)). Fifteen percent of the unknown ESTs scored an excellent probability of containing protein-coding sequence. Fifty percent of the ESTs to known human genes contain protein-coding sequences, therefore, at most half of the unknown ESTs are likely to contain coding sequences. We have found no evidence that genomic DNA or cDNA to unspliced precursor RNA is a major contaminant of either the hippocampus or fetal brain library.

Table 2: ESTs Identified by Database Matches

	SEQ ID	EST#	Putative Identification	Accession DB Len %ID
	208	EST00250	60K filarial antigen	A28209 PIR 108 56.9
٠	2320	EST01784	60K filarial antigen	A28209 PIR 88 50.6
	969	EST01982	ADP-ribosylation factor 1	B33283 PIR 84 41.2
	1834	EST01620	AMP deaminase, brain	A37056 PIR 57 100.0
		EST00289		A35544 PIR 105 90.6
٤,	251	EST00370	Actin, other	S10021 PIR 44 51.1
•	248	EST00271	Actinin, alpha	HUMACTAR GB 271 85.3
٠	891	EST01891	Actinin, alpha	HUMACTAR GB 315 81.6
	1500	EST02538	Actinin, alpha	HUMACTAR GB 271 75.0
	132	EST00110	Agrin .	RATAGR GB 269 82.2
	, 1852	EST01625	Agrin	RATAGR GB 103 84.6
	1094	EST02113	l Ala	HUMALA GB 92 82.8
-	691	EST00675	Alcohol dehydrogenase	RICGOS2G_1 GPU 38 59.0
	2408	EST00244	Amylaid A4	HUMAFPA4 GB 135 91.9
	1965	EST01664	Amyloid A4	A29030 PIR 52 54.7
	2068	EST01694	Amyloid A4	QRHUA4 PIR 83 69.0
	2092	EST01700	Anion exchanger homolog AE3	A33638 PIR 95 97.9
			Axonal glycoprotein TAG-1	A34695 PIR 69 87.1
	1492	EST02530	B cell-specific Mo-MLV integration site	e 1 (bmi-1) MUSBMI1A GB 111 87.5
	1277	EST02306	Bib protein	S09699 PIR 57 53.4
		EST00255		CADN\$HUMAN SP 41 45.2
			CAMP-dependent protein kinase inhibi	
			cAMP-regulated phosphoprotein	B3530B PIR 21 86.4
	1413	EST02447	cAMP-specific phosphodiesterase	HUMPDEAA GB 363 69.0
	396	EST01443	CDPdiacylglycerol-serine O-phosphatid	yltransferase JH0368 PIR 33 41.2
			Ca2+-transporting ATPase 2	B28065 PIR 125 88.9
			Calbindin D28	RATCALBD28 GB 81 87.8
			Calcium channel	S05054 PIR 33 67.6
			Calmodulin	RATRCM1 GB 120 90.1
	485	EST01466	Calmodulin-dependent protein kinase,	type II, beta A26464 PIR 93 98.9
	913	EST01913	Clathrin coat assembly protein AP50 h	iomolog YSCYAP54_1 GPU 62 63.5
		EST01676		PIGCOFIL GB 132 89.5
			Cysteine-rich intestinal protein	GYRTI PIR 56 66.7
	1588	EST02633	D22Z3 repetitive DNA	HUMREP GB 160 76.4
			Diacylglycerol kinase, lymphyocyte	S09156 PIR 44 42.2
			Diamine acetyltransferase	ATDASHUMAN SP 74 45.3
٠,			Dilute (myosin heavy chain)	MUSDILUTE_1 GPU 27 100.0
			Discs-large tumor suppressor	DRODLGA_1 GPU 53 63.0
			Enhancer of split	A30047 PIR 86 58.6
			Fatty acid synthase	RATFAS GB 98 79.8
٠			Fo ATPase beta subunit, mitochondrial	
	1532	EST02302	GA binding protein, beta subunit Gamma-aminobutyric acid transporter	MUSGAC_1 GPU 86 90.8
	2217	55100825	Gamma-aminoputyric acid transporter	
			Gelation factor ABP-280	A37098 PIR 74 80.0
٠			Glutamate-aspartate carrier protein	JV0092 PIR 57 37.9
			Glutaminase	GLS\$RAT SP 34 74.3
			Histocompatibility antigen modifier 1	A37779 PIR 63 75.0
			Hypothetical 43.5K protein	JU0319 PIR 43 52.3
			Inositol-1,4.5-trisphosphate 3-kinase	JN0129 PIR 65 68.2
	SEO ID	EST# .	Putative Identification	Accession DB Len %ID

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INI4$HUMAN SP 76 70.1
MUSJ1PRO GB 362 85.7
   724 EST01529 Interferon-induced 54K protein
  1035 EST02051 J1 protein
                                                                                               HUMKUPMR_1 GPU 54 36.4
  1229 EST02258 KUP protein
  1229 EST02258 KUP protein HUMKUPMR_1 GPU 54 36.4
993 EST02007 Kinase 5 protein CHKCEK5_1 GPU 68 94.2
77 EST00257 Kinesin A35075 PIR 57 86.2
78 EST00258 Kinesin A35075 PIR 62 47.6
2245 EST01748 Kinesin A35075 PIR 98 52.5
2282 EST01764 Lamin B receptor A36427 PIR 76 71.4
2173 EST01724 Lon protease JQ0901 PIR 103 41.3
1427 EST02463 Long-chain-fatty-acid-CoA ligase A36275 PIR 36 62.2
313 EST00276 Lysosomal membrane glycoprotein 1 (LAMP-1) A31959 PIR 53 46.3
161 EST00247 MARCKS (myristoylated alanine-rich protein kinase BOVMARCKS GB 139 83.6
186 EST02418 MARCKS homolog MMF52 EU 237 92.4
769 EST00734 MARCKS homolog S08341 PIR 61 40.3
43 EST00371 Maternal G10 protein S05955 PIR 38 92.3
  2245 EST01748 Kinesin
  2282 EST01764 Lamin B receptor
  2173 EST01724 Lon protease
                                                                                             S05955 PIR 38 92.3
RATMATRIN3 GB 137 93.5
                                                                                               S05955
    43 EST00371 Maternal G10 protein
  1468 EST02505 Matrin 3
  639 EST00632 Membrane transport superfamily (GTP-dependent) A24400 PIR 63 39.1 1894 EST01643 Membrane transport superfamily (GTP-dependent) A24400 PIR 71 50.0
                                                                                                                                                      50.0
                                                                                                       RATNEU GB 293 86.4
   824 EST01865 Microtubule-associated protein 1B
   223 EST00368 Microtubule-associated protein 1B
                                                                                                      A33645
                                                                                                                            PIR .. 30 54.8
  2032 EST01683 Microtubule-associated protein 18
                                                                                                     A33645
                                                                                                                           PIR 49 62.0
PIR 48 61.2
  2017 EST01678 Milk fat globule membrane protein
                                                                                                       A36479
 227 EST00259 Notch/Xotch
 952 EST01961 Notch/Xotch
227 EST00259 Notch/Xotch
335844 PIR 74 85.3
1395 EST02429 Nuclear factor 1-like protein (NF1)
1681 EST01573 Nucleoside diphosphate kinase
346 EST01828 Otd homeotic protein
347 EST01828 Otd homeotic protein
3489 EST01951 Phosphatidylinositol-4,5-bisphosphate phosphodiest A28807
349 EST00992 Polymyxin B resistance
349 EST00287 Processing enhancing protein
349 EST00991 Processing enhancing protein
349 EST01896 Problems
359 EST01896 Problems
                                                                                            S03968 PIR 96 58.8

RATPROHIB_1 GPU 120 97.5

MUSMPC1A_1 GPU 91 93.5

PIGPREP GB 223 83.9

HUMPKCL GB 382 58.7

HUMPROP2AB GB 288 76.8
  2353 EST01806 Prohibitin
  2297 ESTO1775 Prohormone cleavage enzyme
   9 EST00376 Protyl endopeptidase
  1069 EST02087 Protein kinase C, zeta
  1933 EST01650 Protein phosphatase 2A beta subunit
                                                                                            LRP$MOUSE SP 62 44.4
SO4783 PIR 34 57.1
A36352 PIR 72 75.3
F34323 PIR 91 82.6
S05962 PIR 58 52.5
   202 EST00298 Protein-tyrosine phosphatase LRP
   1654 ESTO1572 Protochlorophyllide reductase
   38 EST00374 RNA polymerase II 6th subunit (RPO26)
  1478 EST02515 Rab5
  2368 EST01389 Radial spoke protein 3
   37 EST00038 ras p21-like small GTP-binding protein (srgg GDS) BOVSMGGDS GB 131 89.4
180 EST00299 ras-related proteins S10493 PIR 51 46.1
1700 EST01579 Retrovirus-related gag polyprotein FOHUE2 PIR 95 77.1
   180 EST00299 ras-related proteins
  1700 EST01579 Retrovirus-related gag polyprotein
  1511 EST02550 Retrovirus-related pol polyprotein
                                                                                                    GNLJGL
                                                                                                                          PIR 50 54.9
   102 EST00248 the H12/ ARH12
                                                                                                   BOVBGBRH GB 195 79.6
  1715 EST01583 Ribosomal protein L18a
                                                                                                  RSRT18 PIR 68 95.7
                                                                                              Accession DB Len %ID
SEQ ID EST#
                          Putative Identification
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		. *	
A24579	PIR 7	5 63.1	
JQ0771			
			•
			٠.٠.
S11581			
A36195			
A35652	2 PIR	97 77	.5
HUMSPTB .	GB 268		
A35981	PIR	52 58.9	
BOVS	OHEP1 1		100.0
SY65\$HUM	IAN SP	27 53	.6
MUSTALINR_1	GPU 79	81.2	. ,
ROBO	PIR	65 81.8	8 .
TVHUDB	PIR 2	5 65.4	
A35104 PIF	33 67	.6	
HUMTUBAG	GB 22	3 75.0	1.5
HUMTBB5	GB 298	93.6	
HUMTUBBM	GB 21	7 90.4	
A26561	PIR 105	88.7	
HUMECK		4 74.3	j.
			5
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4		* 1 5 1	
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510397	PIR 29	56.7	
	JO0771 R6RT30 R3RT10 R3YM10 S11581 A36195 A3565: HUMSPTB A35981 BOVSI SY65\$HUM MUSTALINR_1 E) ROBO TVHUOB A35104 PII HUMTUBAG HUMTUBAG HUMTUBBM A26561 HUMECK JN0114 A29871 HUMOM B26955 S06551 S00754 C32891 S00754	JO0771 PIR 7 R6RT30 PIR 5 R3RT10 PIR 66 R3YM10 PIR 66 R3YM10 PIR S11581 PIR 46 A35652 PIR HUMSPTB GB 268 A35981 PIR 8 BOVSDHFP1 1 BOVSDHFP1 1 GSY65\$HUMAN SP MUSTALINR 1 GPU 79 E) ROBO PIR 7 TVHUOB PIR 33 67 HUMTUBAG GB 22 HUMTBB5 GB 298 HUMTUBBM GB 21 A26561 PIR 105 HUMECK GB 38 JN0114 NR 36 A29871 PIR 56 HUMCM GB 826955 PIR 50 S00754 PIR 15	JO0771 PIR 74 80.0 R6RT30 PIR 57 96.5 R3RT10 PIR 66 97.0 R3YM10 PIR 36 51.4 S11581 PIR 40 68.3 A36195 PIR 46 80.8 A35652 PIR 97 77 HUMSPTB GB 268 67.7 A35981 PIR 52 58.5 BOVSDHFP1 1 GPU 49 SY65*HUMAN SP 27 53 MUSTALINR 1 GPU 79 81.2 PROBO PIR 65 81.1 TVHUDB PIR 25 65.4 A35104 PIR 33 67.6 HUMTUBAG GB 223 75.0 HUMTUBAG GB 223 75.0 HUMTUBBM GB 217 90.4 A26561 PIR 105 88.7 HUMECK GB 384 74.3 JN0114 NR 36 45.0 A29871 PIR 56 57.9 HUMGM GB 228 99.6 826955 PIR 88 46.1 S06551 PIR 25 57.7 S00754 PIR 105 67.0 S00754 PIR 105 67.0 S00754 PIR 105 67.0 S00754 PIR 105 67.0

There is little redundancy in EST sequencing according to the present invention. Of the nuclear-encoded messenger RNAs, the most common ESTs were to the β -actin (0.6% of the EST clones) and myelin basic protein genes (MBP, 0.5% of the clones). MBP, a highly expressed structural component of nerve tissue (Kamholtz, J., de Ferra, F., Puckett, C., & Lazzarini, R. Proc. Natl. Acad. Sci., USA 83: 4962-4966 (1986)), displays four alternate splicing forms, of which at least two are present among the ESTs reported here. Other common ESTs were Gs-alpha gamma-actin and both a- and alpha-tubulin.

By matching ESTs to known database sequences, a phenotypic characterization of the tissue begins to emerge. Protein superfamilies matched by ESTs were grouped into three broad functional categories to assess the biological spectrum represented by these randomly selected cDNA clones. Structural and metabolic classes comprised about 30% of the ESTs with database matches. Twenty-five percent were involved in regulatory pathways and the remainder were not classifiable. Eleven of the eighteen enzymes of glycolysis and the citric acid cycle are represented by at least one subunit or isozyme. In addition, several genes not previously known to be expressed in the brain were matched, including spermine/spermidine acetyltransferase (Casero, R., Celano, P, Ervin, S., Applegren, N., Wiest, L. J. Biol. Chem. 266: 810-814 (1991)) and osteopontin (Young, M., Kerr, J., Termine, J., Wewer, U., Wang, M., McBride, W. & Fisher, L. Genomics 7:491-502 (1990)).

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EXAMPLE 5

Mapping of ESTs to Human Chromosomes

Randomly selected ESTs corresponding to SEQ ID NOs. were assigned to chromosomes via PCR (see Table 3).

Oligonucleotide primer pairs were designed from EST

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sequences to minimize the chance of amplifying through an intron. The oligonucleotides were 18-23 bp in length and designed for PCR amplification using the computer program INTRON (National Institutes of Mental Health, Bethesda, MD). The program is based on the assumptions that: 1) introns are genomic sequences that interrupt the coding and noncoding sequences of genes (Smith, J. Mol. Evol. 27:45-55 (1988)); 2) there are consensus sequences for splice junctions (Shapiro, et al., Nucl. Acids Res. 15:7155-7174 (1987)); and 3) that 90% of the human genes studied have 3' untranslated regions of mRNA not interrupted by introns in the genomic DNA (Hawkins, Nucl. Acids Res. 16:9893-9908 (1988)).

The program evaluates the likelihood that a given GG or CC dinucleotide represents a former exon-intron boundary. Specifically, every input strand is processed by the INTRON program twice, first evaluating the sense mRNA strand, and then processing the complementary or anti-sense strand. The program evaluates each sequence by finding all GG or CC pairs (possible former splice sites), searching for STOP codons in all three reading frames, and analyzing the GG or CC pairs surrounded by stop codons. All regions of the EST that are unlikely to contain splice junctions based on CC content, GG content, and stop codon frequency are then marked by the program in uppercase.

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The creation of PCR primers from known sequences is well known to those with skill in the art. For a review of PCR technology see Erlich, H.A., PCR Technology: Principles and Applications for DNA Amplification. 1992. W.H. Freeman and Co., New York. ESTs were examined for the presence of stop codons in each reading frame and for consensus splice junctions. The presence of stop codons and absence of splice junction sequences are more characteristic of 3' untranslated sequences than of introns. The untranslated sequences are unique to a given gene; thus, primers from

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these regions are less likely to prime other members of a gene family or pseudogenes.

The primers were used in polymerase chain reactions (PCR) to amplify templates from total human genomic DNA. PCR conditions were as follows: 60 ng of genomic DNA was used as a template for PCR with 80 ng of each oligonucleotide primer, 0.6 unit of Tag polymerase, and 1 uCu of a ³²P-labeled deoxycytidine triphosphate. was performed in a microplate thermocycler (Techne) under the following conditions: 30 cycles of 94°C, 1.4 min; 55°C, 2 min; and 72°C, 2 min; with a final extension at 72°C for The amplified products were analyzed on a 6% polyacrylamide sequencing gel and visualized by autoradiography. If the size of the resulting product was equivalent to the EST from which the primers are derived, then the PCR reaction was repeated with DNA templates from two panels of human-rodent somatic cell hybrids; BIOS PCRable DNA (BIOS Corporation) and NIGMS Human-Rodent Somatic Cell Hybrid Mapping Panel Number 1 (NIGMS, Camden, NJ).

PCR was used to screen a series of somatic cell hybrid cell lines containing defined sets of human chromosomes for the presence of a given EST. DNA was isolated from the somatic hybrids and used as starting templates for PCR reactions using the primer pairs from EST sequences selected above. Only those somatic cell hybrids with chromosomes containing the human gene corresponding to the EST will yield an amplified fragment. ESTs were assigned to a chromosome by analysis of the segregation pattern of PCR products from hybrid DNA templates. For a review of techniques and analysis of results from somatic cell gene mapping experiments. (See Ledbetter et al., Genomics 6:475-481 (1990).) The single human chromosome present in all cell hybrids that give rise to an amplified fragment represents the chromosome containing that EST.

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The assignment of 100 ESTs and corresponding genes to chromosomes by PCR is shown in Table 3.

Table 3: Assignment of ESTs to Chromosomes by PCR

SEO ID	EST#	Ch	r PRIMER #1	PRIMER #2
5	EST00012	1	TCCAGGCAATCCCAGAATAG	CTA ATTICA COMOS OTTOGOGO
57	EST00058	ī	CTGTTTGCAAGTTTCAAAGC	CTAATTGAGCTCACTGGCCC
64	EST00066	·ī	GCCATTGTGCTGAATAGAGT	GCCATTTCTAACAACCAGAG
83	EST00079	ī	CAGCTAATTGACCTGGGCTA	GTTAGTGTTTCCTTAGCAAG
83	EST00079	ī	GGCAGAGCATAATGAGTATA	CAACATGCTCTGAGCTTTAG
91	EST00086	ī	AGTTTAGATGGAGGGCTGTC	CATATGCATATGGTCCCTAT
105	EST00365	ī	CTTAATCACCTCCCTTTTGT	TCTGCCCTAATGCGCAGGCT
109	EST00095	ī	AGTCTAATCCTGTACACTTG	CCTTAGTTGGAGATAAGGTC
116	EST00100	ī	TTAGAAGTGCCCATGGGAGG	CGGGCTTTCTCTGAATTGGT
141	EST00118	ī	CTCAGAGAAACTTÄGGTGAA	TTTTAAGGCTCTGGAGTGTT
220	EST00118	ī	AAGTTGCACATTGCCCAAGG	CTACAGAATCATTTCACCAG
237	EST00187	1		ATAGTACTGCAAGGTTATTC
242	EST00187		TTACAAATTTCTCTTGACGC	CTGAAGGAGCACAGTTTCTC.
259		1	GGATCAGATAATCAAACAGG	GCTTAGGATATGAATGCATA
259 269	EST00202	1	GCATCACAGTTTAACTGAGG	CTACATATTTGTGCCTCCTT
	EST00293	1	CTGTTGCTGTGCAGTAGCTT	CTTTTGACCCAGTGAAACTT
299	EST00249	1	GATCATGCAGACGTAGATAT	CCAACTCCTGCCAGATCATT
1651	EST00810	1	TAGTCGCTGTAAGTTGATTC	GCTTTGCTGGATGCTTCATT
16	EST00021	2	CAGGCAAGTTTCTTCCAGGA	TCAGACCCATGGTCAGCTT
1898	EST01013	2	GGCTGAGAACGGTTAGCATA	CCCTCAGCTTAGGGGAATG
8	EST00234	2	TAGAAGGCAAACTATGTCCC	GGTTGAGGATTGGCTTTTAC
36	EST00037	2	AGCCAGAAGGCTGCTTAAAG	GCAGTGAACCAGTACTCCTA
123	EST00106	2	GTCTAATTTGTAACCTTCAG	GATAGATTGTATAAGAAGCC
192	EST00155	. 2	GATTTATGTCTGGGAACTAA	GCAGCATGTGAAAGAATGAT
200	EST00162	2	TTTAATGGGTGGTGGGAGCT	CGATGCACATCCTTCTCCAT
284	EST00216	2	CCTAAGAATTCGTTTGGCTC	GTCTGGCACATAATAGATTTG
102	EST00248	3	ATACTACATCTAGTCTGG	TTACAGTTCTGTGGTTTC
167	EST00138	3 .	AAACAGCTGCGGAGTACA	AAAGGATCCTCCACTCCAGA
	EST00274	3.	CCTAGCAAACTCATACACAC	CATAAGTGAATGGACACAGG
60	EST00062	3	ACACATTAACGGTGCTGCAG	GGAATCAGCCCTTGAGGACT
· 77	EST00257	3	AAGCTCACAACGCAGATCTG	CTGGAACAGCTTACAAAGGT
10,7	EST00093	3	ATTGAACTCTGTCAACAGTG	TGTAAAACAAAGGCCAAACT
108	EST00094	З	AL2-GCAGGATGTCAGTCTTTTGAG	AGCACACATTATCTACCACGGC
1706	EST00857	3	AL2-GCAGGATGTCAGTCTTTTGAG	CCAGCACACATTATCTACCACG
-3.7	EST00038	4	AACTTCGCAGTCATGAGAAC	TGTATCGGGCAGTTCTCAG
	EST00013	4	CACATGTTCTCCCTCTTTCA	GCATTTTGGAGCTCTTCCGT
	EST00038	4	AL2-GGAAGTACAGGATTTGGC	TTAGAGATGGGATGATGCCG
31	EST00033	5 .	TGGGTACCCTAAGGTGTTTG	GACTAATCTAAGGTCTAGG
28	EST00030	· 5	AGATAAGTTAGGAAGCTGGT	ACTCACTGCTAGTATCATCC
59	EST00061	- 5	AAAGTTTCTTAGCACCCCC	CAGACTTTGACAAAGAATC
74	EST00073	5	ATCAGACACGTGGCAGGGTT	AAGTCCCTGAGGGTGCAGAA
121	EST00104	5 `	TGAAGGCAGCTGCTAAATCT	GGATGTATTGATCTGACTCA
149	EST00123	5.	ATACTGTCAACGGAGGGTGA	GTCTGCAGGTTTCTCCTTGA
235	EST00185	5	TTACTGTCCCATCAGATATC	TACACTCTTAAGAAGGTATG
1643	EST00803	5	GAGCGTTTAAAAGAGATTCT	TACAGACAGCCATGTTCCAA
1677	EST00835	5	AL2-TCTCCAACACAGTCATGC	CGGATGCCATCATATACC
23	EST00026	5	CCTGCAGTGACACTTAACAT	CTGCTCACCTGAAATTGATAC
121	EST00104	5	AL2-CAGATCAATACATCCTCTGGG	CTGTGCACCIGAAAIIGAIAC
	,	Ĭ.	UDUITALIALITALITALITALITALITALITALITALITALI	CIGIGCAGIGGIGAGIAAAAGG

i	SEO ID	EST#	<u>Chr</u>	PRIMER #1	PRIMER #2
	i	EST00007	6	TAGTTGATGGTCTGGGTTAT	GAAATCCCAGGGAGACAATG
	19	EST00023	6	CAACTTACATTAGGGGTTTG	GACCTCATTAGAAGAGCCCA
	155	EST00129	6	GGAAGCTGCCATATAAGCTC	TCAGTGTCGTACAATCTACC
٠,	224	EST00356	6	GCTGTATGTTAACCCTTTGT	TGGAACCCTCAAACACTGCT
	288	EST00219	6	ACTTTCATGTTGAGAAGTAT	ATCTAGCTGAAACATTGCTG
	1638	EST00798	6	CTTCATCTGTTAACTGTTGA	TGAAAATGAGTCACAGGCAG
٠.	1675	EST00833	6	AL2-ACCCAGTTCTCAAAGACC	GGTTTACCATTCAGAGGC
	22	EST00301	6	CTCCGTGATTACCTTCATCT	TTGTAGGTATCTCTGTCAGCT
	207	EST00167	7	GGTGCTACTTTGTGAATGCT	AGCAATGTGATTTTGTAGG
	137	EST00272	. ,	AGTGGTCACTATCTACATGG	GATTCAGAATTACTAAGCCG
	1659	EST002/2	7	TGTATAGGCTCTACATAAAG	CTTAATCATGGATTCTTCGT
٠.	1680	EST00817	7	AL2-GTTCTTTCCCAGGTATGC	TTGTTGGTACTGAGGAAGTGCG
	292	EST00838	. 8 -	TGCAGCAGTGACCATGAGAA	ATCATCTTTCCACGCGGCTT
.'	134	EST00223	9	TCTGGGCTTCTGTGGTTCAA	CTGGCTGCTCAGCAACTCAT
	1906	EST01021	9	GGATGTTTCTATGTGACGA	TTCCAGTGCCCCTTTTGTCC
	1645	EST01021		CTCCTTTGGGACAAACAACT	CCAACCAAACATATTCTA
	20	EST00804 EST00024	10	AGCTGTTCCTGAGAGATGCA	CCTTGTGAAGAAGACTTTC
	157	EST00024	10	TCAGCAACAGGTCACTTTGG	CTAAGCATCTGCATGTCCAG
	172	EST00131 EST00142	10	TACTAGCATTTCTTACTCTC	TATGCTGATTGTTTGCACTC
	250	EST00142 EST00197		GGTGATTAGAGAGTCTGTTG	
	133	EST00197	10 11		GAACTCTGTAGTGTTCTAAA
. >	178	EST00111 EST00294	11	GGAAATTAGGCTTAGCTCAC GTTTGAAGGAAGTGATTTCC	GTGCAGAATACTTAGAGTCC
					TAGGGCCACCTCCAGTTCAT
	10 126	EST00016 EST00109	11	GTCTTTGGATTCTACGTAGA AL2-CTAACCACAACCCACACATTG	CGATAATGACATTTCTTCTGG
	7	EST00109 EST00014	11 12	ALZ-CTAACCACACACACACATTG AACTTGCAACATAAATACTAG	CCTCAGCACAAGAAGAATGG
. •					GAGCAATGATTTCTAACAGT
٠.	254 2409	EST00200 EST00273	13 13	TTGTGTACTGTCTGATAGAC GCAAGATGATGGAACATCCC	TAAGCCATGGGCATCTATAA TTCCTTCTGGAGGCTCTACA
	170				
,		EST00295	14	GGTGCTTAAGGCCACTTTTG	CTTAGAGGATCATAGGTCTG
	255 290	EST00201	14 14	CCAGGAGAGATAGAAGATCA GTGCCAAGATGGCTCATGTA	GCAGAGTTGAATATGAACCT GTATAGCTTTAAGCCAGTTC
٠.	293	EST00221		AATGCATTATGCCTGGTCTT	GGAAAAGTCTAGAACTTAGT
	1664	EST00224 EST00822	14	GGGTCAGAATTAAGAGGTCT	GTTCATCTCTAACTCCTTTC
	315	EST00822 EST00008	14	AAGCTGGCTGGGAAATGTTC	GTCATCTCTAACTCCTTTC
	1689	EST00008		AL2-AGGAGGAAGCTGAAATCC	GGAAGTCCATAAGAGACTCACC
	95	EST00845	14		AAGTGAGCGATTGCACCTTC
• • •	205		15	GTGACAGACCATGTCTATTG AGGATGACCTGAGTGAGCTG	CCATGGCAGCAAGGAACTCT
		EST00165	. 15		
•	33 247		16	TGTGTGAAAGGGAGTCTTGT	CCATTTTGACTGTTCCATAG GAGAAGAATATCAAATGGGG
	18	EST00279 EST00373	16 16	TGGCTAGGGCAGGCCTTAAA CCATCTGTGTCCCAATTAAGC	AGGGAAGAATATCAAATGGGG
٠.			,-		
	68		17	CAAAGACGGGAGACGAATGA	AGTGGAACGCGTGGCCTATG
	1652	EST00811	17	GAGCTGCATGTTGATAAGTA	TTGACTTAAGCTGACCTTAA
	1702	ESTO0854	17	AL2-TTGCTGTGGAATCCATGAGAG	GGCAAGTGATCTGTTCTTGG
	84	EST00080	19	AGAGATGTCAGTCCATTATC	CTATTCCACCTTACTCAAGG
	223	EST00368	19	CATCATGTCGGAGACGCATT	TGGATGACCTGAGTCTGCAG
•	21	EST00025		AGTTCTGGAGGCTAGGAGTT	ATGTAAGGACCCCTAGATGG
٠.	210	EST00168		TGTCAACTTCCCTTTGGCCT	GAAGCTTGCTCATTCAGGAA
	136	EST00113	20.	AL2-TCGGAGAAGTTGCAGTTTCTG	GTTAAAAGCTGTTAGACGGGGC
	120	EST00103	22	CACTGACTGCTCTTTA	GGAACCGTAACTCTCCATAG
	313	EST00276	X	ATTGACCTTCAATGTAATAA	TTGGATTGGGCAAAATAG

**	SEO ID	EST#	Chr	PRIMER #1	PRIMER #2
	162	EST00133	•	ATGTGAGCATCTATACCTGC	
	1669 1917 1708	EST00827 EST01029 EST00858	X X	CGGACAACTAGGATAAATGC GAATAGCATTATTAGCCAGT	AATGAAGGCATGAGAATAGG TACGCGTTTGAATGGCTTGA GGACCTATTGGAGATCTACT
	(+,00	P2100020		AL2-AAGGCGAGGATTATGTGC	TTCTACTGGGTACACTTCGACC

Abbreviation: AL2: Amino-Link-2 Fluorescent Tag, Chr.: Chromosome.

The foregoing techniques have been used to further localize 9 ESTs and their associated genes to precise locations onto chromosome 6 or chromosome X, as reflected in Table 4A (in Example 7 below), using sublocalization techniques that employ somatic cell hybrids. ESTs were used as hybridization probes and mapped to other chromosomes using techniques disclosed in Example 7. Somatic cell hybrids were prepared that contained defined subsets of chromosomes 6 and X. Methods for preparing and selecting somatic cell hybrids are known in the art. review of an exemplary procedure to generate somatic cell hybrids containing the short arm of human chromosome 6, see Zoghbi, et al., Genomics 9(4):713-720 (1991). For a general review of somatic cell hybridization see Ledbetter et al. (supra). The hybrids were processed to obtain DNA and analyzed by PCR and by fluorescence in situ hybridization. SEQ ID NOs 19, 22, 1, 224, 288 mapped to chromosome 6, while SEQ ID NOs 162, 1917, 1699 and 1899 mapped to chromosome X using somatic cell hybrids.

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EXAMPLE 6

Mapping of All ESTs to Human Chromosomes

The procedure of Example 5 is repeated for all of the ESTs from Examples 1 and 2 not previously mapped to human chromosomes. Data are generated corresponding to the data in Table 3 for all of the unmapped ESTs. As previously mentioned, virtually all of the ESTs will map to a unique chromosomal location. The inability of any ESTs to localize to a unique location will be readily ascertainable during the mapping process.

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Physical mapping of the type reported in Table 4 on all the EST clones reported here would provide human chromosome markers spaced on average every 1.2 megabases and would roughly double the number of expressed sequences that have been localized to chromosomes (McKusick, V. FASE)

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J. 5: 12-20 (1991)). Mapped ESTs are also a new resource to identify candidates for the estimated 5000 single-locus disease-associated genes (Id.).

EXAMPLE 7

Alternative Technique for Mapping to Chromosomes Mapping of ESTs to chromosomes using fluorescence in situ hybridization

This technique was used to map an EST to a particular location on a given chromosome. Cell cultures, tissue, or whole blood were used to obtain chromosomes.

0.5 ml. of whole blood was added to RPMI 1640 and incubated 96 hours in a 5%CO₂/37°C incubator. 0.05 ug/ml colcemide was added to the culture one hour before harvest. Cells were collected and washed in PBS. The suspension was incubated with a hypotonic solution of KCl added dropwise to reach a final volume of 5 ml. The cells were spun down and fixed by resuspending the cells in methanol and glacial acetic acid (3:1). The cell suspension was dropped onto glass slides and dried.

The slides were treated with RNase A and washed then dehydrated in a series of increasing concentrations of ethanol.

The EST to be localized was nick-translated using fluorescently labeled nucleotide (Korenberg, Jr., et al., Cell 53(3):391-400 (1988)). Following nick translation, unincorporated label was removed by spin dialysis through Sepharose. The probe was further extracted with phenol-chloroform to remove additional protein. The chromosomes were denatured in formamide using techniques known in the art and the denatured probe was added to the slides. Following hybridization, the cells were washed. The slides were studied under a fluorescent microscope. In addition, the chromosomes can be stained for G-banding or Q-banding using techniques known in the art.

The resulting metaphase chromosomes had fluorescent tags localized to those regions of the chromosome that were homologous to the EST. Thus, a particular EST was localized to a particular region on a given chromosome. In this manner, SEQ ID NOS 396, 485, 506, 1880 and 1894 were mapped using fluorescent in situ hybridization to locations on chromosomes 17, 7, 10 and 1 respectively (See Table 4B below). For a review of the technique see Verma et al., Human Chromosomes: A Manual of Basic Techniques. Pergamon Press, NY (1988), which is hereby incorporated by reference.

Table 4: Precise Chromosomal Localization of ESTs

	SEQ ID	EST#	Map Location
Α.	19	EST00023	6p
15	22	EST00301	6p
	1894		6p21
	1	EST00007	6q
	224	EST00356	6q
	288	EST00219	6q
20	162	EST00133	Xp11.21 - Xp21.2
	1917	EST01029	Xp11.21 - Xp21.2
	1669	EST00827	Xq26 - Xq27.1
	1899	EST01014	Xq28
В.	1880	EST01634	1q32
25	485	EST01466	7p13
	506	EST01471	10q11.2
	396	EST01443	17q25

EXAMPLE 8

Automated DNA Sequencing Accuracy

ESTs that match human sequences in GenBank are excellent tools for the analysis of the accuracy of double-strand automated DNA sequencing. Ninety EST/GenBank matches were examined for the number of nucleotide mismatches and gaps required to achieve optimal alignment by the Genetics Computer Group (GCG) program BESTFIT (Devereux et al, Nucleic Acids Research 12: 387 (1984)).

The number of mismatches, insertions and deletions was counted for each hundred bases of the sequence (Table 5). As expected, the sequence quality was best closest to the primer and decreased rapidly after about 400 bases. The number of deletions and insertions relative to the GenBank reference sequence increased five- to ten-fold beyond 400 bases, while the number of mismatches doubled. The average accuracy rate for individual double-stranded sequencing runs was 97.7% to 400 bases.

TABLE 5. Accuracy Of Single-Run Double-Stranded Automated Sequencing

Bases from Primer	٠.	Mismatches/		Gaps	Percent	Aligne	đ.
Primer		Ambiquities T	. 17.	<u>Insertions</u>	<u>Deletions</u> T	<u>Accurate</u>	Bases
101 - 200 201 - 300 301 - 400 >400		1.45 1.72 2.07 3.53		0.18 0.25 0.98 2.63	0.19 0.11 0.37 1.06	98.2 97.9 96.6 92.8	8,800 8,130 5,404 3,197

ESTs statistically identical to known human sequences and those matching mitochondrial and ribosomal genes were aligned with sequenced from GenBank using the GCG program BESTFIT. The first 85 nucleotides was polylinker sequence which was not aligned with the pBluescript SK reference sequence. Tabulation of errors began 15 bases into the BESTFIT alignment and thus is reported beginning with bases 101-200. Error rates are reported as number of mismatches, insertions, or deletions per hundred aligned bases. "Mismatches" includes ambiguous base calls.

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EXAMPLE 9

Probability of ESTs Containing Coding Sequences

The ESTs of the present invention were statistically evaluated using the coding-region prediction program CRM via the GRAIL server (Uberbacher, E. & Mural, R. Proc. Natl. Acad. Sci. USA, 88: 11261-5 (1991)). The CRM program uses a neural network to combine results from several different coding regions by looking at different 6 bp sequences found in coding exons and in introns. program additionally conducts reading frame searches and assesses randomness at the third position of codons. This protocol categorizes sequences as having an excellent. good, marginal, or poor probability of containing coding The results are reported in Tables 6-9. There were 219 ESTs categorized as "excellent" (Table 6); 120 categorized as "good" (Table 7); 113 categorized as "marginal" (Table 8); and 1743 categorized as "poor" (Table These results indicate that most ESTs of the present invention comprise noncoding regions.

Table 6: ESTs with Excellent Probability of Containing Coding Sequence

7 EST00014 980 EST01994 1820 EST 15. EST00020 986 EST02000 1829 EST 15. EST00020 986 EST02000 1829 EST 16. EST00064 1000 EST02014 1849 EST 17. EST00067 1007 EST02011 1866 EST 18. EST00067 1007 EST02011 1866 EST 18. EST00067 1007 EST02021 1866 EST 18. EST00067 1007 EST02021 1866 EST 18. EST00020 1021 EST02035 1888 EST 18. EST00260 1021 EST02035 1888 EST 18. EST00090 1034 EST02035 1888 EST 18. EST00090 1047 EST02063 1890 EST 18. EST00090 1096 EST02109 1903 EST 114 EST00099 1096 EST02115 1904 EST 125 EST00177 1115 EST02135 1914 EST 126 EST00130 1129 EST02135 1914 EST 126 EST00130 1129 EST02149 1944 EST 126 EST00137 1141 EST02163 1962 EST 127 EST00145 1183 EST02187 1975 EST 128 EST00145 1183 EST02187 1975 EST 129 EST00146 1163 EST02187 1975 EST 120 EST00146 1263 EST02272 1982 EST 120 EST00163 1264 EST02275 1991 EST 120 EST00163 1264 EST02275 1991 EST 120 EST00163 1264 EST02295 1991 EST 120 EST00163 1264 EST02295 1991 EST 120 EST00163 1264 EST02295 2000 EST 120 EST00161 1287 EST02316 2016 EST 120 EST00187 134 EST02336 2016 EST 120 EST00180 134 EST02336 2016 EST 127 EST00199 1308 EST02338 2016 EST 127 EST00203 1324 EST02354 2013 EST 128 EST00203 1324 EST02354 2013 EST 127 EST00203 1326 EST02396 2016 EST 127 EST00207 1356 EST02396 2016 EST 127 EST00208 1383 EST02415 2056 EST 127 EST00208 1383 EST02415 2056 EST 127 EST00208 1383 EST02487 2004 EST 128 EST00208 1383 EST02487 2004 EST 128 EST00208 1383 EST022487 2004 EST 128 EST00208 1383 EST022487 2004 EST 128 EST00208 1383 EST022487 2004 EST 128 EST00208 1383 EST02250 2016 EST 128 EST00208 1383 EST02250 2016 EST 128 EST00208 1383 EST02250 2016 EST 128 EST00208 1383 EST022487 2004 EST 139 EST00208 1384 EST02500 2117 EST 139 EST00400 1457 EST02500 2117 EST 130 EST00400 1457 EST02500 2117 EST 130 EST00400 1624 EST02569 2155 EST 146 EST00509 1528 EST02661 2214 EST 150 EST00600 1624 EST02604 21.3 EST 150 EST00600 1624 EST02606 2225 E	100941 100943 100951 100958 100975 100983 100989 100994 101005 101009 101018 101019 101026 101050 101051 101051 101051 101051 101075 101088 101090 101098 101098 101098
7 EST00014 980 EST01994 1820 EST 15. EST00020 986 EST02000 1829 EST 15. EST00020 986 EST02000 1829 EST 16. EST00064 1000 EST02014 1849 EST 17. EST00067 1007 EST02011 1866 EST 18. EST00067 1007 EST02011 1866 EST 18. EST00067 1007 EST02021 1866 EST 18. EST00067 1007 EST02021 1866 EST 18. EST00020 1021 EST02035 1888 EST 18. EST00260 1021 EST02035 1888 EST 18. EST00090 1034 EST02035 1888 EST 18. EST00090 1047 EST02063 1890 EST 18. EST00090 1096 EST02109 1903 EST 114 EST00099 1096 EST02115 1904 EST 125 EST00177 1115 EST02135 1914 EST 126 EST00130 1129 EST02135 1914 EST 126 EST00130 1129 EST02149 1944 EST 126 EST00137 1141 EST02163 1962 EST 127 EST00145 1183 EST02187 1975 EST 128 EST00145 1183 EST02187 1975 EST 129 EST00146 1163 EST02187 1975 EST 120 EST00146 1263 EST02272 1982 EST 120 EST00163 1264 EST02275 1991 EST 120 EST00163 1264 EST02275 1991 EST 120 EST00163 1264 EST02295 1991 EST 120 EST00163 1264 EST02295 1991 EST 120 EST00163 1264 EST02295 2000 EST 120 EST00161 1287 EST02316 2016 EST 120 EST00187 134 EST02336 2016 EST 120 EST00180 134 EST02336 2016 EST 127 EST00199 1308 EST02338 2016 EST 127 EST00203 1324 EST02354 2013 EST 128 EST00203 1324 EST02354 2013 EST 127 EST00203 1326 EST02396 2016 EST 127 EST00207 1356 EST02396 2016 EST 127 EST00208 1383 EST02415 2056 EST 127 EST00208 1383 EST02415 2056 EST 127 EST00208 1383 EST02487 2004 EST 128 EST00208 1383 EST02487 2004 EST 128 EST00208 1383 EST022487 2004 EST 128 EST00208 1383 EST022487 2004 EST 128 EST00208 1383 EST022487 2004 EST 128 EST00208 1383 EST02250 2016 EST 128 EST00208 1383 EST02250 2016 EST 128 EST00208 1383 EST02250 2016 EST 128 EST00208 1383 EST022487 2004 EST 139 EST00208 1384 EST02500 2117 EST 139 EST00400 1457 EST02500 2117 EST 130 EST00400 1457 EST02500 2117 EST 130 EST00400 1624 EST02569 2155 EST 146 EST00509 1528 EST02661 2214 EST 150 EST00600 1624 EST02604 21.3 EST 150 EST00600 1624 EST02606 2225 E	00943 00951 00958 00978 00978 00983 00989 00994 01007 01007 01009 01018 01050 01050 01050 01050 01050 01050 01050 01050 01050 01050 01050 01075 01080 01097 01088 01097
7 EST00014 980 EST01994 1820 EST 15. EST00020 986 EST02010 1829 EST 62 EST00064 1004 EST02014 1849 EST 62 EST00067 1007 EST02021 1866 EST 75 EST00074 1018 EST02032 1871 EST 98 EST00260 1021 EST02035 1888 EST 106 EST00092 1034 EST02050 1890 EST 106 EST00092 1034 EST02050 1890 EST 114 EST00098 1090 EST02109 1903 EST 115 EST00099 1096 EST02115 1904 EST 128 EST00252 1118 EST02135 1914 EST 128 EST00252 1118 EST02135 1914 EST 164 EST00135 1133 EST02149 1944 EST 164 EST00135 1133 EST02149 1949 EST 174 EST00296 1163 EST02187 1973 EST 179 EST00145 1183 EST022187 1973 EST 183 EST00148 1243 EST02208 1977 EST 183 EST00148 1243 EST02208 1977 EST 201 EST00163 1264 EST02293 1991 EST 215 EST00163 1266 EST02294 1993 EST 225 EST00165 1265 EST02294 1993 EST 226 EST00165 1265 EST02294 1993 EST 227 EST00165 1265 EST02294 1993 EST 228 EST00203 1324 EST02272 1982 EST 230 EST00165 1265 EST02294 1993 EST 246 EST00203 1324 EST02294 2001 EST 253 EST00199 1308 EST02338 2012 EST 268 EST00369 1344 EST022374 2024 EST 270 EST00203 1324 EST02236 2001 EST 271 EST00208 1383 EST02415 2009 EST 272 EST00203 1324 EST022354 2013 EST 273 EST00203 1365 EST02356 2051 EST 274 EST00208 1383 EST02415 2056 EST 275 EST00165 1265 EST02295 2000 EST 276 EST00203 1368 EST02338 2012 EST 277 EST00208 1383 EST02415 2056 EST 278 EST00209 1308 EST02336 2015 EST 279 EST00418 1287 EST022517 2001 EST 270 EST00207 1356 EST02356 2051 EST 273 EST00208 1383 EST02415 2059 EST 274 EST00208 1383 EST02452 2090 EST 275 EST00208 1383 EST02455 2059 EST 276 EST00207 1356 EST02356 2051 EST 277 EST00208 1385 EST02256 2051 EST 278 EST00208 1385 EST02256 2051 EST 279 EST00500 1457 EST02487 2094 EST 339 EST00440 1477 EST02437 2046 EST 339 EST00440 1475 EST02467 2094 EST 346 EST00350 156 EST02255 2154 EST 351 EST00266 1561 EST02660 2117 EST 362 EST00500 1576 EST02660 2117 EST 363 EST00500 1576 EST02660 2116 EST 364 EST00509 1528 EST02660 2116 EST 365 EST00500 1667 EST02660 2255 EST 366 EST00660 1666 EST00660 2255 EST 366 EST00660 1664 EST006671 2255 EST	00951 00958 00975 00983 00989 00994 01005 01007 01007 01018 01019 01026 01040 01054 01054 01062 01071 01080 01080 01080 01090 01097 01098 01106
15. EST000201 986 EST02000 1829 EST 48 EST00291 1000 EST02014 1849 EST 66 EST00064 1004 EST02018 1860 EST 66 EST00067 1007 EST02021 1866 EST 75 EST00074 1018 EST02032 1871 EST 98 EST00260 1021 EST02035 1888 EST 106 EST00092 1034 EST02050 1890 EST 107 EST00094 1047 EST02063 1892 EST 108 EST00094 1047 EST02063 1892 EST 108 EST00099 1096 EST02115 1904 EST 114 EST00099 1096 EST02115 1904 EST 124 EST00107 1115 EST02135 1914 EST 126 EST00150 1129 EST02138 1950 EST 126 EST00150 1129 EST02138 1950 EST 127 EST00155 1133 EST02153 1944 EST 128 EST00252 1118 EST02138 1950 EST 129 EST00155 1133 EST02153 1942 EST 129 EST00155 1133 EST02153 1962 EST 129 EST00165 1163 EST02187 1973 EST 129 EST00148 1243 EST02272 1982 EST 120 EST00165 1265 EST02294 1993 EST 120 EST00163 1264 EST02295 1991 EST 120 EST00163 1266 EST02295 1991 EST 120 EST00163 1266 EST02295 2000 EST 120 EST00163 1267 EST02296 1993 EST 120 EST00163 1268 EST02296 1993 EST 120 EST00163 1267 EST02296 1993 EST 121 EST00208 1384 EST02238 201 EST 122 EST00163 1267 EST02296 1993 EST 123 EST00199 1308 EST02238 201 EST 1253 EST00199 1308 EST02238 201 EST 1268 EST00203 1324 EST02236 203 EST 1270 EST00203 1324 EST02236 203 EST 1271 EST00283 1365 EST02396 2051 EST 1272 EST00284 1401 EST02435 2059 EST 1281 EST00214 1401 EST02437 2094 EST 1281 EST00214 1401 EST02437 2094 EST 1281 EST00244 1401 EST02437 2094 EST 1285 EST00284 1405 EST02259 2006 EST 1281 EST00246 1405 EST02259 2006 EST 1285 EST00286 1405 EST02259 2006 EST 1286 EST00259 1531 EST 1286 EST00266 1561 EST02259 2144 EST 1287 EST00266 1561 EST02255 2134 EST 1288 EST00266 1561 EST02256 2134 EST 1289 EST00480 1457 EST02487 2094 EST 1281 EST00266 1561 EST02256 2134 EST 1285 EST00266 1561 EST02256 2134 EST 1285 EST00266 1561 EST02256 2134 EST 1286 EST00266 1561 EST02267 224 EST 1286 EST00266 1561 EST02267 225 EST 1562 EST00566 1561 EST02256 2134 EST 1570 EST00260 1558 EST02566 2134 EST 1570 EST00260 1578 EST02566 2134 EST 1570 EST00260 1578 EST02566 2134 EST 1570 EST00260 1565 EST02566 2134 EST 1570 EST00267 1225 EST 1570 ES	00958 00975 00983 00989 00994 01005 01007 01008 01019 01026 01040 01054 01054 01054 01062 01071 01088 01090 01097 01097 01106
48 EST00291 1000 EST02014 1849 EST 62 EST00064 1004 EST02011 1860 EST 75 EST00074 1018 EST02035 1871 EST 98 EST00260 1021 EST02055 1888 EST 106 EST00092 1034 EST02050 1890 EST 106 EST00099 1094 EST02109 1903 EST 114 EST00099 1096 EST02115 1904 EST 124 EST00077 1115 EST00252 1118 EST02138 1930 EST 128 EST00052 1118 EST02138 1930 EST 128 EST00052 1118 EST02138 1930 EST 128 EST000167 1115 EST02138 1930 EST 156 EST00137 1141 EST02135 1944 EST 166 EST00137 1141 EST02263 <td< td=""><td>00975 00983 00989 00994 01005 01007 01009 01018 01019 01026 01040 01054 01054 01054 01054 01075 01088 01090 01088 01097 01097</td></td<>	00975 00983 00989 00994 01005 01007 01009 01018 01019 01026 01040 01054 01054 01054 01054 01075 01088 01090 01088 01097 01097
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608 EST00611 1630 EST02676 2227 EST0 621 EST00620 1637 EST00796 2233 EST0 635 EST00629 1639 EST00799 2235 EST0 642 EST00634 1649 EST00808 2236 EST0 644 EST00636 1651 EST00810 2255 EST0 687 EST00671 1677 EST00835 2259 EST0	
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	01304
7/7 =========	01307
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753 EST00721 1706 EST00857	
	01756
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886 EST01886 1718 EST00867 2303 EST	11775
930 EST01933 1742 EST00887 2334 EST0	01345
	01345 01358
1760 EST00903 2342 EST	01345 01358 01362
936 EST01939 1767 EST00907 2348 EST	01345 01358
948 EST01957 1769 EST00909 2358 EST	01345 01358 01362 01365 01371
965 EST01978 1777 EST00913 2367 EST	01345 01358 01362 01365 01371 01379

2362 EST01383 2378 EST01397 2399 EST01423 2407 EST02714

Table 7: ESTs with Good Probability of Containing Coding Sequence

		•		200	
GEO.	ID#	EST#	1.2	1041	EST02057
اللات	<u> </u>	<u> </u>		1083	EST02102
	20	EST00024		1003	EST02102 EST02118
	72	EST00071		1105	EST02118
	82	EST00078		1113	EST02124 EST02133
1	88	EST00084		1113	
	137	EST00034			EST02161
	177	EST00272		1146	EST02168
-	193	EST00326		1196	EST02221
			* * .	1210	
	200 218	EST00162		1233	EST02262
	228	EST00175 EST00179		1285	EST02314
	247			1331	EST02361
		EST00279	4	1388	EST02421
	264	EST00204	•	1418	EST02453
	267 296	EST00297 EST00228	5 to 10 to 1	1439	EST02475
	371	EST00226	•	1502	EST02540
	385	EST00426		1537	EST02578
	392	EST00436		1563	EST02606
	414	EST00442		1599	EST02644 EST02647
	433	EST00474		1602 1693	
	453	EST00474		1695	EST00848 EST00850
	471	EST00505			EST00850
	496	EST00505		1729 1730	
	524	EST00544		1738	EST00878 EST00883
	526	EST00546	•	1738	EST00885
	529	EST00549		1743	EST00888
	549	EST00563		1768	EST00908
	557	EST00569		1780	EST00908
	578	EST00588		1804	EST00918
	596	EST00602		1805	EST00938
	607	EST00610		1811	EST00939
	619	EST00619		1819	EST00950
	657	EST00646		1826	EST00956
•	660	EST00649		1830	EST00959
	689	EST00673		1845	EST00971
	695	EST00679		1848	EST00974
	699	EST00682		1853	EST00977
	729	EST00703		1967	EST01066
	742	EST00713		1992	EST01089
•	747	EST00717		1994	EST01091
	755	EST00723	<i>:</i> '	SEQ ID#	EST#
•	759	EST00725			
	776	EST00738		1997	EST01094
	778	EST00740		2046	EST01134
•	782	EST01551		2101	EST01177
	829	EST00768	* .	2102	EST01178
	835	EST00772		2105	EST01181
	836	EST00773		2106	EST01182
	862	EST01872		2141	EST01213
	881	EST01881	,	2184	EST01251
SEO	ID#	EST#	•	2196	EST01260
		· · · · · · · · · · · · · · · · · · ·	1	2203	EST01264
	884	EST01884	•	2232	EST01283
i.	924.	EST01926		2308	EST01339
	929	EST01932	1.00	2345	EST01368
	938	EST01941	•	2346	EST01369
	971	EST01985	• •	2351	EST01373
	995	EST02009		2354	EST01375
	996	EST02010		2355	EST01376
. ;	1031	EST02046	*.	2359	EST01380
		,			The state of the s

Table 8: ESTs with Marginal Probability of Containing Coding Sequence

				•	
SEC	ID#	EST#		1222	EST02251
94				1224	EST02253
·	11	EST00018		12281	EST02257
	12	EST00274		1267	EST02296
	24	EST00027		1301	EST02331
<i>1</i> .	45	EST00364		1397	EST02431
	79	EST00076			
	90	EST00302		1448	EST02484
				1480	EST02517
	110			1493	EST02531
	44	EST00120		1499	EST02537
-	.45	EST00121		1503	EST02541
	-92			1527	EST02568
	222	EST00177		1536	EST02577
- :	234	EST00184		1548	EST02590
	277	EST00212		1562	EST02605
4.7	319	EST00381		1572	EST02615
**,	368	EST00423		1575	EST02618
	370	EST00425	•	1595	EST02640
	387	EST00438		1608	EST02653
	402	EST00451		1610	EST02655
	415	EST00461		1621	EST02667
	418	EST00464		1627	EST02674
1.	426	EST00470		1629	EST02677
	503	EST00528		1631	EST02678
	517	EST00539		1683	EST00840
	522	EST00543		1692	EST00840
	532	EST00551		1751	
	540	EST00557			ESTO0895
•	570	EST00580		1756	EST00900
•	573			1764	EST02690
. '		EST00583		1770	EST00910
	576	EST00586		1793	EST00929
	613	EST00615		1847	EST00973
• .	617	EST00617		1877	EST00998
٠.	626	EST00622		1897	EST01012
**	681	EST00665		1900	EST01015
	726	EST00700		1939	EST01655
	72,7	EST00701	•	1940	EST01046
	738	EST00711		1954	EST01058
	745	EST00715	•	SEQ ID#	EST#
•	. 752	EST00720	٠		· · · · · ·
	791	EST00746		1990	EST01087
	795.	EST00749	**	2008	EST01103
1. July 1	803	EST00756		2031	EST01123
	845	EST00777		2041	EST01130
	852	EST00782		2044	EST01132
	854	EST00784		2060	EST01146
	907	EST01907		2100	EST01176
	912	EST01912		2136	EST01210
	935	EST01938		2153	EST01210
SEQ	ID#	EST#			
	<u> </u>	HYAT	* .	2204	EST01265
	968	EST01981		2212	EST01270
	985	EST01981 EST01999	74 L	2248	EST01297
				2250	EST01299
	988	EST02002		2266	EST01310
	L043	EST02059	**	2309	EST01340
	1081	EST02100		2347	EST01370
	1089	EST02108		2388	EST01406
	L116	EST02136	1.5	2398	EST01422
	L134	EST02154		2405	FST01427
1	L205	EST02233	·		•

Table 9: ESTs with Poor Coding Probability

		• '	•		S			2	
SEQ ID#	EST#	103	EST00317	204	EST00235	309	EST00174	/0/	F6700/E7
<u> </u>		104	EST00354	206	EST00166			404	EST00453
1	EST00007	105	EST00365	207	EST00167	315	EST00008	405	EST00454
						316	EST00378	406	EST00455
2	EST00009	107	EST00093	. 209	EST00331	317	EST00379	407	EST00456
3	EST00010	, 109	EST00095	210	EST00168	318	EST00380	408	EST00457
4	EST00011	111	EST00281	211	EST00332	320	EST00382	409	EST01444
5	EST00012	112	EST00318	212	EST00169	321	EST00383	· 410	EST00458
. 6	EST00013	. 113	EST00097	213	EST00170	322	EST00384	411	EST00459
.8	EST00234	116	EST00100	214	EST00171	323	EST00385	412	
10	EST00016	117	EST00319	216	EST00173	325	EST00386		EST01445
	EST00019	118	EST00101	219				416	EST00462
16	EST00021				EST00176	326	EST00387	417	EST00463
		119	EST00102	220	EST00372	327	EST00388	419	EST00465
17	EST00022	120	EST00103	221	EST00359		EST00389	420	EST00466
18	EST00373	121	EST00104	224	EST00356	329	EST00390	421	EST00467
19	EST00023	122	EST00105	225	EST00178	330	EST00391	422	EST01447
21	EST00025	123	EST00106	226	EST00333	331	EST00392	423	EST00468
23	EST00026	125	EST00108	229	EST00180	332	EST00393	424	EST01448
25	EST00028	126	EST00109	231	EST00334	334	EST00395	425	EST00469
27	EST00029	127	EST00320	232	EST00182	335	EST00396	427	EST01449
28	EST00030	129	EST00321	233	EST00183	337	EST00398	428	
29	EST00031	130	EST00355	235	EST00185	340			EST01451
30	EST00032						EST00402	429	EST00471
		131	EST00322	236	EST00186	341	EST00403	431	EST00473
31	EST00033	133	EST00111	237	EST00187	342	EST00404	432	EST01452
32	EST00233	134	EST00375	238	EST00188	344	EST00405	434	EST00475
33	EST00034	135	EST00112	239	EST00189	345	EST00406	435	EST00476
34	EST00035	136	EST00113	240	EST00335	347	EST01829	436	EST00477
35	EST00036	138	EST00114	241	EST00191	348	EST01830	437	EST00478
36	EST00037	139	EST00116	242	EST00192	349	EST01831	438	EST00479
39	EST00039	140	EST00117	243	EST00193	350	EST00407	439	EST00480
40	EST00040	141	EST00118	244	EST00194	351	EST00408	440	EST01454
41	EST00041	142	EST00323	245	EST00347	352	EST00409	442	
42	EST00042	143	EST00119	246	EST00196	353			EST01456
46	EST00044	146	EST00122				EST00410	443	EST00482
				250	EST00197	354	EST01433	444	EST00483
47	EST00046	147	EST00292		EST00198	355	EST00411	446	EST00485
49	EST00047	148	EST00236	254	EST00200	356	EST00412	447	EST00486
, 50	EST00048	149	EST00123	255	EST00201	357	EST00413	448	EST00487
. 51	EST00049	150	EST00124	256	EST00345	358	EST00414	449	EST00488
52	EST00052	151	EȘT00125	257	EST00337	359	EST00415	450	EST00489
53	EST00054	152	EST00126	259	EST00202	360	EST00416	451	EST00490
54	EST00055	153	EST00127	260	EST00357	361	EST00417	452	EST00491
. 55	EST00056	154	EST00128	261	EST00338	363	EST00419	455	EST00494
56	EST00057	155	EST00129	262	EST00339	364	EST00420	457	EST00495
57	EST00058	157	EST00131	265	EST00205	365			
58	EST00059	158	EST00131	266			EST01434	458	EST00496
. 59					EST00206	366	EST00421	459	EST00497
	EST00061	159	EST00325	272	EST00340	367	EST00422	460	EST01457
- 60	EST00062	160	EST00326	274	EST00268	369	EST00424	461	EST01836
63	EST00065	162	EST00133	275	EST00209	372	EST00427	462	EST00498
64	EST00066	163	EST00134	278	EST00342	373	EST01832	. 464	EST00499
67	EST00351	165	EST00136	279	EST00213	374	EST00428	465	EST00500
- 68	EST00068	167	EST00138	280	EST00343	375	EST00429	466	EST00501
69	EST00360	168	EST00140	283	EST00215	376	EST01436	467	EST00502
71	EST00070	169	EST00141	284	EST00216	377	EST00430	468	EST00503
73	EST00072		EST00295	286	EST00217	378	EST00431	470	EST00504
. 74	EST00073	171		287	EST00218	379			
							EST00432	SEQ ID#	EST#
	EST00075	172	EST00142		EST00219	380	EST01439		
	EST00077		EST00143	289	EST00220	381	EST00433	473	EST00506
81	EST00315		EST00144		EST00221	. 382	EST00434	474	EST00507
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1049	EST02065	1144	EST02166	1234	EST02263	1321	EST02351
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1051	EST02067	1148	EST02170	1236	EST02265	1323	EST02353
1052	EST02068	1149	EST02171 -	1237	EST02266	1325	EST02355
1053	EST02069	1150	EST02172	1238	EST02267	1326	EST02356
1054	EST02070	1152	EST02174	1239	EST02268	1327	EST02357
1055	EST02071	1153	EST02175	1240	EST02269	1328	EST02358
1056	EST02072	1154	EST02176	1241	EST02270	1329	EST02359
1057	EST02073	1155	EST02177	1242	EST02271	1330	EST02360
1058	EST02074	1156	EST02178	1244			
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1064	EST02082	1162	EST02185	1251	EST02280	1339	EST02369
1065	EST02083	1164	EST02188	1252	EST02281	1342	EST02372
1066	EST02084	1165	EST02189	1253	EST02282	1343	EST02373
1067	EST02085	1166	EST02190	1254	EST02283	1345	EST02375
1068	EST02086	1167	EST02191	1255	EST02284	1346	EST02376
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1071	EST02089	1169	EST02194		EST02286	1349	EST02379
	EST02090	1170	EST02195	1258	EST02287		
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	EST02091				EST02288	1351	EST02381
		1172	EST02197		EST02289	1352	EST02382
1075	EST02093	1173	EST02198	1261	EST02290	1353	EST02383
. 1076	EST02094		EST02199	1262	EST02291	1354	EST02384
1077	EST02096		EST02200	1263	EST02292	1355	EST02385
	EST02097	1176	5ST02201	1268	EST02297	1357	EST02387
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1080	EST02099	1178	EST02203	1270	EST02299	1359	EST02390
1082	EST02101	1179	EST02204		EST02300	1360	EST02391
	EST02103	1180	EST02205	1272	EST02301	1361	EST02392
1085	EST02104	1182	EST02207		EST02302	1362	EST02393

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1389			_ ,	1596		1696		1802	EST00937
		1489		1597		1697		1803	EST01613
1390		1490		1598		1702	EST00854	1806	EST00940
1391	EST02424	1491		1600		1703	EST00855	1808	
1392		1494	EST02532	1601	EST02646	1705		1810	
. 1393	EST02426	1497	EST02535	1603		1707		1812	EST02693
1394	EST02427	. 1498		1604					
1396	EST02430	1501		1605		1711	EST00861	1813	EST00946
1398	EST02432	1504		1606		1712		1814	EST00947
1400	EST02434	1506		1607			EST00862	1815	EST01615
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1403	EST02437	1508				1714	EST00864	1817	EST00949
1404	EST02438			1611	EST02656	1717		1818	EST01616
1406		1509		1612		1719	EST00868	1821	EST00952
	EST02440	1510		1613		1720	EST00869	1822	EST00953
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1411	EST02445	1514	EST02553	1617	EST02662	1723	EST00872	1825	EST00955
1414	EST02448	1515	EST02554	1618	EST02663	1724	EST00873	1827	EST01618
1415	EST02449	1517	EST02558	1619	EST02665	1725	EST00874	1828	EST00957
1416	EST02450	1518	EST02559	1620	EST02666	1727	EST00875	1831	EST01619
1419	EST02454	1519		1622		1728	EST00876	1832	
1420	EST02456	1520	EST02561	1623	EST02669	1732			EST00960
1421	EST02457	1521	EST02562	1625	EST02672		EST01590	1833	EST00961
1422	EST02458	1522	EST02563			1733	EST01591	1835	EST00962
1423	EST02459	1523		1626	EST02673	1734	EST00880	1836	EST01622
1424			EST02564	1628	EST02675	1735	EST00881	1837	EST00963
1464	EST02460	1524	EST02565	1632	EST02679	1736	EST01592	1838	EST00964
	EST02461	1525	EST02566	1633	EST02680	1737	EST00882	1839	EST00965
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	EST02465	1530	EST02571	1636	EST02684	1744	EST00889	1842	EST00968
1431	EST02467	1532	EST02573	1638	EST00798	1745	EST00890	1843	EST00969
1432	EST02468	1533	EST02574	1640	EST00800	1747	EST00892	1844	EST00970
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1437	EST02473	1540	EST02581	1646	EST00805	1753	EST00897	1855	EST00978
1438	EST02474	1541	EST02582	1647	EST00806				EST00979
1440	EST02476	1542	EST02583	1648	EST00807	1754	EST00898	1857	EST00980
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	EST02480	1547	EST02589	1653	EST00812	1759	EST00902		EST00985
		1549	EST02591	1655	EST00813	. 1761.		1863	EST00986
	EST02482	1550	EST02592	1656	EST00814		EST00904	1864	EST00987
	EST02483	1552	EST02594	1657		1763	EST00905	1865	EST00988
	EST02486	1553	EST02595	1658	EST00816	1765	EST01600	1867	EST00990
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1455	EST02491	1557	EST02600		EST00820	1774	EST00912	1873	EST01630
1456	EST02492	1559	EST02602	1663	EST00821	1775	EST02692	1874	
1458	EST02495	1560	EST02603		EST00822				EST00996
1459	EST02496	1564	EST02607		EST00823	1776 1778	ESTU16U3	1875	EST01631
1460	EST02497	1565	EST02608		EST00824	1778	EST00914	1876	EST00997
1461	EST02498	1568	EST02611	1000	EST00826	1779	EST00915	SEQ ID#	EST#
1462	EST02499		EST02612	1000	E0100020	1781	EST00917	·	
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		1270	E3102013		EST00828	1783	EST00919	1879	EST01633
1466 1467	ESTO2503		EST02614	1671	EST00829	SEQ ID#	EST#	1881	EST01000
	EST02504	1573	EST02616		EST00830			1882	EST01638
1469	EST02506	1574	EST02617		EST00831	1784	EST00920	1883	EST01001
1470	EST02507	1576	EST02619	1674	EST00832	1785	EST00921		EST01002
1471	EST02508	1577	EST02620	SEQ ID#	EST#	1786	EST00922	1886	EST01003
1472	EST02509	1578	EST02621			1787	EST00923	1887	EST01004
1474	EST02511	1579	EST02622	1675	EST00833	1788	EST00924	1889	EST01004
1475	EST02512	1580	EST02623	1676	EST00834	1789	EST00925	1891	EST01008
1476	EST02513	SEQ ID#	EST#	1678	EST00836		EST00926	1893	EST01642
1477	EST02514			1679		1791			
1481	EST02518	1582	EST02626	1680	EST00838	1792		· 1895	EST01010
1482	EST02519	1583	EST02628	1684	EST00841		EST00928		EST01013
SEQ ID#	EST#	1584	EST02629			1794	EST01607	1899	EST01014
		1585	EST02630	1685	EST00842	1795	EST00930	1901	EST01016
1483	EST02520				EST01574	1704	EST00931		EST01017
	EST02521		EST02632	1687	EST00843	1797	EST00932	1905	EST01020
1404	r9105251	1270	EST02635	1688	EST00844	1798	EST00933	1906	EST01021
						• • • • • • • • • • • • • • • • • • • •			· ·

2332 EST01794
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2335 EST01359
2336 EST01360
2337 EST01361
2340 EST01364
2343 EST01366
2344 EST01366
2349 EST01377
2350 EST02708
2352 EST01374
2356 EST01377
2357 EST01378
2360 EST01381
2361 EST01382
2363 EST01384
2364 EST01385
2365 EST01386
2366 EST01387
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2369 EST01387
2370 EST01399
2371 EST01399
2372 EST01399
2375 EST01399
2380 EST01399
2381 EST01400
2382 EST01401
2383 EST01402
2384 EST01403
2385 EST01405

	٠.	* 1 *						
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	1908		2018		2119		2224	
	1909		2019		2122		2228	
•	1911 1912		2020				2229	
	1913		2021 2022	EST01114 EST01115	2124		2231	EST01746
	1915		2023		2125 2126		2237	EST01288
	1916		2025	EST01118	2127	EST01200	2238 2239	EST01289 EST01290
	1917	EST01029	2026	EST01119	2129		2240	EST01291
	1918	EST02695	2027	EST01120	2130	EST01204	2241	EST01747
V	1919		2028	EST01121	2132	EST01206	2242	EST01292
	1920		2029	EST01682	2133	EST01207	2243	EST01293
	1921		2030	EST01122	2135	EST01209	2244	EST01294
	1922 1923		2033	EST01684	2137	EST01211	2246	EST01295
	1924		2034 2035	EST01124 EST01125	2139 2140	EST01716	2247	EST01296
	1925		2036	EST01126	2140	EST01212 EST01214	2249 2251	EST01298 EST01300
	1926	EST01036	2037	EST01686	2143	EST01215	2252	EST01300
	1927	EST01037	2038	EST01127	2147	EST01219	2253	EST01301
	1929		2039	EST01128	2148	EST01220	2256	EST02718
	1932 1934		2040	EST01129	2151	EST01223	2257	EST01303
	1935	EST01043 EST01044	2042 2045	EST01688 EST01133	2152	EST01224	2258	EST01754
	1936	EST01045	2047	EST01135	2154 2156	EST01226 EST01718	2260 2261	EST01305
	1937	EST01652	2048	EST01136	2157	EST01719	2262	EST01755 EST01306
	1938	EST01654	2049	EST01689	2158	EST01228	2264	EST01308
-	1941	EST01047	2050	EST01137	2159	EST01229	2265	EST01309
-	1942	EST01048	2052	EST01139	2160	EST01230	2268	EST01311
	1943 ., 1945	EST01049	2053	EST01140	2162	EST01232	2269	EST01312
	1945	EST01051 EST02696	2054 2055	EST01141 EST01690	2163	EST01233	2270	EST01313
	1947	EST01052	2057		2164 2165	EST01234 EST01720	2271	EST01314
	1948	EST01053	2061	ES101147	2166	EST01236	2272 2273	EST01762 EST01315
	1950	EST01055	2062	EST02701	2167	EST01237	2275	EST01316
	1951	EST01056	2063	EST01148	2169	EST01722	2276	EST01317
	1952	EST01057	2065	EST01691	2170	EST01239	2277	EST01318
	1955 1957	EST01662	2066	EST01692	2171	EST01240	· 2278	EST01319
٠.	1958	EST01059 EST01060	2067 2069	EST01693 EST01150	2172	EST01241	2279	EST01320
	1959	EST01061	2070	EST01151	2175 2177	EST01243 EST01245	2280 2284	EST01763
	1963	EST01063	2072	EST01152	2178	EST01726	SEQ_ID#	EST01323 EST#
	1964	EST01064	2074	EST01698	2179	EST01246	SC4_IDH	<u> </u>
	1966		2075	EST01153	2180	EST01247	2285	EST01768
.,	1968	EST01067	2076	EST02702	2181	EST01248	2287	EST01770
	1969 1970	EST01068 EST01666	2077	EST01154	SEQ ID#	EST#	2288	EST01324
	1971	EST01069	2078 2079	EST01155 EST01156	2182	EST01249	2290	EST01772
	1972	EST01070	2080	EST01157	2183	EST01249	2291 2292	EST01773 EST01326
	1975	EST01073	SEQ ID#	EST#	2185	EST01252	2293	EST01327
	1976	EST01074			2186	EST01253	2294	EST01328
•	1978	EST01076	2081	EST01158	2187	EST01727	2295	EST01329
SE.	1979 Q ID#	EST01077 EST#	2082	EST01159	2188	EST01254	2296	EST01330
<u>90</u>		<u> </u>	2083 2084	EST01160 EST01161	2190 2191	EST01728 EST01256	2298 2299	EST01331
٠.	1980	EST01078	2085	EST01162	2193	EST01258		EST01332 EST01334
	1981.	EST01079	2086	EST01163	2194	EST01729		EST01780
	1983	EST01081	2087	EST01164	2195	EST01259		EST01336
	1984	EST01082	2088	EST01166	2197	EST01261	2306	EST01337
•	1985 1986		2091	EST01168	2198	EST01730		EST01341
	1988	EST01084 EST01085	2093 2095	EST01170		EST01262		EST01342
	1989		2095	EST01701 EST01172	2200 2201	EST01731 EST01263		EST01343
	1995	EST01092	2097	EST01173	2202	EST01732		EST01344 EST01346
`.	1996	EST01093	2098	EST01174		EST01735		EST01782
	1998	EST01095	2099	EST01175	2206	EST01736		EST01347
	1999	EST01096	2103	EST01179		EST01267	2318	EST01348
	2002 2003	EST01099	2104	EST01180		EST02717	2319	EST01349
•	2005	EST01675 EST01100	2107 2108	EST01183		EST01268		EST01350
	2005	EST01101	2108	EST01184 EST01185		EST01269		EST01351
, .	2007	EST01102		EST01186		EST01271 EST01273		EST01789 2ST01353
	2009	EST01677	2111	EST01187		EST01274		EST01354
	2010	EST01104	2112	EST01188	2219	EST01275		EST01355
	2011	EST01105	2113	EST01189	2220	20701746	2329	ESTU1792
	2014	EST01108	2114	EST01190		EST01741 .		EST01793
	2015	EST01109	2115	EST01191	2222	EST01276	2331	EST01356

EST#
EST01407
EST01415
EST01416
EST01419
EST01421
EST01424
EST01425
EST01426
EST02713
EST00273

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EXAMPLE 10

Functional Gr upings of ESTs and Corresponding Genes

By matching new human ESTs to known sequences from other species, the apparent function of the gene corresponding to the EST can be ascertained. The data generated in Example 3 and 4 have been used to categorize 127 of the ESTs of the present invention, and their corresponding genes, into predicted functional groups. (These 127 are ESTs with database matches to sequences from other species for which a function was known.) Two different grouping schemes have been used.

The first scheme separates the sequences into three broad categories: metabolic; regulatory; and structural. These groupings are set out in Table 10.

The second grouping scheme separates the sequences into 13 specific categories: cell surface proteins; developmental control; energy metabolism; kinases and phosphatases; oncogenes; other metabolism-related polypeptides; peptidases and peptidase inhibitors; receptors; structural and cytoskeletal; signal transduction; transporters; transcription, translation, and subcellular localization; and transcription factors. These groupings are set out in Table 11.

Table 10: Three-Class Functional Groupings of ESTs

√.		4.74	
SEQ ID	EST#	Group	Putative Identification
1834	EST01620	М	AMP deaminase, brain
97	EST00289	M	Aconitase
	EST00675	M	
			Alcohol dehydrogenase
	EST01700	M	Anion exchanger homolog AE3
396	EST01443	M	CDPdiacylglycerol-serine O-phosphatidyltransfera
1956	EST01663	M .	Ca2+-transporting ATPase 2
1039	EST02055	M	Calcium channel
2192	EST01257	M	Diacylglycerol kinase, lymphyocyte
1441	EST02477	M	Diamine acetyltransferase
2289	EST01325	M	Fatty acid synthase
	EST00377	М	Fo ATPase beta subunit, mitochondrial
1667	EST00825	М	Gamma-aminobutyric acid transporter
1412	EST02446	М	Glutamate-aspartate carrier protein
1020	EST02034	M	Glutaminase
2326	EST01791	М	Inositol-1,4,5-trisphosphate 3-kinase
2173	EST01724	М	Lon protease
1427	EST02463	M	Long-chain-fatty-acid-CoA ligase
2226	EST01744	M	NAD(P) + transhydrogenase (B-specific)
1566	EST02609	M	Neutrophil oxidase factor
1681	EST01573	М	Nucleoside diphosphate kinase
2254	EST01751	M	Phosphatidylinositol-4,5-bisphosphate phosphodie
93	EST00287	M ·	Processing enhancing protein
2297	EST01775	M	Prohormone cleavage enzyme
9	EST00376	M	Prolyl endopeptidase
1654	EST01572	M	Protochlorophyllide reductase
1	EST00374	М	RNA polymerase II 6th subunit (RPO26)
	EST01583	M	Ribosomal protein L18a
-	EST01627	M	Ribosomal protein Lla
1974	EST01667	M	Ribosomal protein L3
301	EST00300	M	Ribosomal protein L30
22	EST00300	M	
1 T T	EST01826	M	Ribosomal protein S10 Ribosomal protein S10
	EST01459	M	Ribosomal protein YL10
1 1 2 3 4	EST01697	M	
2138	EST01715	M	Succinate dehydrogenase flavoprotein
1771	EST01601	M	Succinate dehydrogenase flavoprotein
2121	EST01701	M	Thiosulfate sulfurtransferase (rhodanese)
			Valine-tRNA ligase
1726	ESTO1588	M	XPR2 alkaline extracellular protease
913	EST01913	M	Clathrin coat assembly protein AP50 homolog
1035	EST02051	M	J1 protein
969	EST01982	R	ADP-ribosylation factor 1
1126	EST02146	R	Calbindin D28
1910	EST01645	R	Calmodulin
485	EST01466	R	Calmodulin-dependent protein kinase, type II, be
2302	EST01779	R	Discs-large tumor suppressor
188	EST00256	R	Enhancer of split
1229	EST02258	R	KUP protein
993	EST02007	R	Kinase 5 protein
	EST01764	R	Lamin B receptor
SEQ ID	EST#	Group	Putative Identification
222		oroup	
161	EST00247	R	MARCKS (myristoylated alanine-rich protein kinas
769	EST00734	R	MARCKS homolog
1386	EST02418	R	MARCKS homolog
	the second secon	R	Notch/Xotch
952	EST01961		Notch/Xotch
	EST02429	R	Nuclear factor 1-like protein (NF1)
	EST01806	R	Prohibitin
	EST02087		Protein kinase C, zcla
1977	EST01650	R	Protein phosphatase 2A beta subunit
. 1700	2210200	X	rate in prospriate and accordance

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Protein-tyrosine phosphatase LRP
  202 EST00298 R
        EST02515
  1478
                  R
                          Rab5
  1408
       EST02442
                  R
                          Seven in absentia
                          Transforming protein (dbl)
  300
        EST00232
  1147
        EST02169
                          Tyrosine kinase
 1348
        EST02378
                  R
                          cAMP-dependent protein kinase inhibitor
  1931
        EST01041
                  R
                         cAMP-regulated phosphoprotein
  1413
        EST02447
                  R
                         cAMP-specific phosphodiesterase
   37
       EST00038
                         ras p21-like small GTP-binding protein (smg GDS)
   102 EST00248
                          rho H12/ ARH12
  299 EST00249
                         smg p25A GDP dissociation inhibitor
  189 EST00282 R
                         trkB
       EST02362
                         GA binding protein, beta subunit
  1332
                  R
  1277
        EST02306
                  R
                         Bib protein
       EST00371
   43
                         Maternal G10 protein
        EST01580
                         Myeloid differentiation primary response gene My
  1704
  346
        EST01828
                  R
                         Otd homeotic protein
  187
        EST00152
                  R
                         Wilm's tumor-related protein
  249
        EST00275
                  R
                         Zinc Finger Proteins
  413
       EST01446
                         Zinc Finger Proteins
                  R
  469
       EST01460
                         Zinc Finger Proteins
  833
        EST01560
                  R
                         Zinc Finger Proteins
                         Zinc finger proteins
  1230
        EST02259
                  .R
  1496
        EST02534
                  R
                         Zinc finger proteins
                         Zinc Finger Proteins
  2324
       EST01352
                  R
                         60K filarial antigen
  208
        EST00250
                         60K filarial antigen
 2320
       EST01784
                  S
  251
       EST00370
                  S
                         Actin, other
                 `S
 2146
       EST01218
                         Actin, other
       EST00271
                         Actinin, alpha
  248
                  S
 891 EST01891
                         Actinin, alpha
 1500
       EST02538
                  S
                         Actinin, alpha
  132
        EST00110
                  S
                         Agrin
 1852
        EST01625
                  S
                         Agrin
 1965
        EST01664
                         Amyloid A4
                  S
 2068
       EST01694
                  S
                         Amyloid A4
 2408:
                  S
       EST00244
                         Amyloid A4
       EST01634
 1880
                  S
                         Axonal glycoprotein TAG-1
 2004
       EST01676
                  S
                         Cofilin
  650
       EST00642
                  S
                         Dilute (myosin heavy chain)
 2217
        EST01738
                  S
                         Gelation factor ABP-280
 1885
       EST01639
                  S
                         Histocompatibility antigen modifier 1
                  S
   77
        EST00257
                         Kinesin
SEQ ID
                        Putative Identification
       EST#
                  Group
    78 EST00258
                  S
                         Kinesin
 2245
       EST01748
                  S
                         Kinesin
                         Lysosomal membrane glycoprotein 1 (LAMP-1)
  313
       EST00276
  223
       EST00368
                  S
                         Microtubule-associated protein 1B
                         Microtubule-associated protein 1B
  824 EST01865
 2032
       EST01683
                         Microtubule-associated protein 1B
 2017
                         Milk fat globule membrane protein
       EST01678
                 ·S
 1567
       EST02610
                         Neural cell adhesion molecule L1
 506
       EST01471
                         Neuraxin
 2368
       EST01389
                         Radial spoke protein 3
                  S
  951
        EST01960
                         Spectrin, beta
 2089
        EST01699
                  S
                         Sperm membrane protein
  653
        EST01512
                  S
                         Tubulin, alpha
                         Tubulin, beta
Tubulin, beta
        EST00270
                  S
  311
  594
       EST01490
                  S
  757
        EST01542
                         Tubulin, beta
  1245
        EST02274
                  S
                         Tubulin, beta
                         Tubulin, beta
 1589
       EST02634
                  S
  1468
       EST02505
                         Matrin 3
```

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1371 EST02402 S Talin 1701 EST00853 S Unc-104

Group Key: M: Metabolic, R: Regulatory, S: Structural

Table 11: Thirteen-Class Functional Groupings f ESTs

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SEO ID	EST#	Group	Putative Identification
208	EST00250	CS	60K filarial antigen
2320	EST01784	CS	60K filarial antigen
1965	EST01664	CS	Amyloid A4
2068	EST01694	CS	Amyloid A4
2408	EST00244	CS	Amyloid A4
1880	EST01634	CS	Axonal glycoprotein TAG-1
1885	EST01639	CS ·	Histocompatibility antigen modifier 1
313	EST00276	CS	Lysosomal membrane glycoprotein 1 (LAMP-1)
2017	EST01678	CS	Milk fat globule membrane protein
1567	EST02610	CS	Neural cell adhesion molecule L1
2368	EST01389	CS	Radial spoke protein 3
2089	EST01699	CS	Sperm membrane protein
1277	EST02306	DC	Bib protein
188	EST00256	DC	Enhancer of split
43	EST00371	DC	Maternal G10 protein
1704	EST00571	DC	Myeloid differentiation primary response gene MyD1
227	EST01360	DC	Notch/Xotch
952	EST01961	DC	Notch/Xotch
346	EST01828	DC	Orthodentical homeotic protein
1408	EST02442	DC	Seven in absentia
97	EST00289	EM	Aconitase
310	EST00289	EM	Fo ATPase beta subunit, mitochondrial
485	EST01466	KP	Calmodulin-dependent protein kinase, type II, beta
993	EST02007	KP KP	Kinase 5 protein
1069	EST02087	KP	Protein kinase C, zeta
1933	EST01650	KP KP	
202	EST00298	KP	Protein phosphatase 2A beta subunit
1348	EST02378	KP	Protein-tyrosine phosphatase LRP
2302	EST01779	OG	cAMP-dependent protein kinase inhibitor Discs-large tumor suppressor
2353	EST01806	OG	Prohibitin
2333 1478	EST02515	OG	Rab5
300	EST02313 EST00232	OG	
300	EST00232	OG	Transforming protein (dbl)
102	EST00038 EST00248	OG	ras p21-like small GTP-binding protein (smg GDS)
1834			
691	EST01620 EST00675	OM	AMP deaminase, brain
	EST01443	OM	Alcohol dehydrogenase
396	* .	OM	CDPdiacylglycerol-serine O-phosphatidyltransferase
2192	EST01257	OM	Diacylglycerol kinase, lymphyocyte
1441	EST02477	OM	Diamine acetyltransferase
2289	EST01325	OM	Fatty acid synthase
1020	EST02034	OM	Glutaminase
2326	EST01791	OM	Inositol-1,4,5-trisphosphate 3-kinase
1427	EST02463	OM	Long-chain-fatty-acid-CoA ligase
2226	EST01744	OM	NAD(P)+ transhydrogenase (B-specific)
1566	EST02609	OM	Neutrophil oxidase factor
1681	EST01573	OM	Nucleoside diphosphate kinase
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SEO ID	EST#	Group	Putative Identification
2254	EST01751	ОМ	Phosphatidylinositol-4,5-bisphosphate phosphodiest
1654	EST01572	OM	Protochlorophyllide reductase
2073	EST01697	OM	Succinate dehydrogenase flavoprotein
2138	EST01715	OM	Succinate dehydrogenase flavoprotein
1771	EST01601	OM	Thiosulfate sulfurtransferase (rhodanese)
2173	EST01724	PI	Lon protease
2297	EST01775	ΡΙ	Prohormone cleavage enzyme
9	EST00376	ΡΙ	Prolyl endopeptidase
1726	EST01588	PI	XPR2 alkaline extracellular protease
1147	EST02169	PP	Tyrosine kinase
2282	EST01764	RT	Lamin B receptor
189	EST00282	RT	trkB
251	EST00370	SC	Actin, other
2146	EST01218	SC	Actin, other
248	EST00271	SC	Actinin, alpha
891	EST01891	SC	Actinin, alpha
1500	EST02538	SC	Actinin, alpha
132	EST00110	SC	Agrin
1852	EST01625	SC	Agrin
2004	EST01676	SC	Cofilin
650	EST00642	SC	Dilute (myosin heavy chain)
2217	EST01738	SC	Gelation factor ABP-280
77	EST00257	SC	Kinesin
78	EST00258	SC	Kinesin
2245	EST01748	SC	Kinesin
1468	EST02505	SC	Matrin 3
223	EST00368	SC	Microtubule-associated protein 1B
824	EST01865	SC	Microtubule-associated protein 1B
2032	EST01683	SC	Microtubule-associated protein 1B
506	EST01471	SC	Neuraxin
951	EST01960	SC	Spectrin, beta
1371	EST02402	SC	Talin
653	EST01512	SC	Tubulin, alpha
311	EST00270	SC -	Tubulin, beta
594	EST01490	SC	Tubulin, beta
757	EST01542	SC	Tubulin, beta
1245	EST02274	SC	Tubulin, beta
1589	EST02634	SC	Tubulin, beta
1701	EST00853	SC	Unc-104
969	EST01982	ST	ADP-ribosylation factor 1
1126	EST02146	ST	Calbindin D28
1910	EST01645	ST	Calmodulin
161	EST00247	ST	MARCKS (myristoylated alanine-rich protein kinase
769	EST00734	ST	MARCKS homolog
1386	EST02418	ST	MARCKS homolog
1931	EST01041	ST	cAMP-regulated phosphoprotein
1413	EST02447	ST	cAMP-specific phosphodiesterase
299	EST00249	ST	smg p25A GDP dissociation inhibitor
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SEO ID	EST#	Group	Putative Identification
2092	EST01700	TP	Anion exchanger homolog AE3
1956	EST01663	TP	Ca2+-transporting ATPase 2
1039	EST02055	TP	Calcium channel
1667	EST00825	TP	Gamma-aminobutyric acid transporter
1412	EST02446	TP	Glutamate-aspartate carrier protein
913	EST01913	TT	Clathrin coat assembly protein AP50 homolog
1035	EST02051	TT	J1 protein
93	EST00287	TT	Processing enhancing protein
38	EST00374	TT	RNA polymerase II 6th subunit (RPO26)
1715	EST01583	TT	Ribosomal protein L18a
1856	EST01627	TT	Ribosomal protein L1a
1974	EST01667	TT	Ribosomal protein L3
301	EST00300	TT	Ribosomal protein L30
22	EST00301	TT	Ribosomal protein S10
2402	EST01826	TT	Ribosomal protein S10
463	EST01459	TT	Ribosomal protein YL10
2121	EST01711	TT	Valine-tRNA ligase
1332	EST02362	TX	GA binding protein, beta subunit
1229	EST02258	TX	KUP protein
1395	EST02429	TX	Nuclear factor 1-like protein (NF1)
187	EST00152	TX	Wilm's tumor-related protein
249	EST00275	TX	Zinc Finger Proteins
413	EST01446	TX	Zinc Finger Proteins
469	EST01460	TX	Zinc Finger Proteins
833	EST01560	TX	Zinc Finger Proteins
1230	EST02259	TX	Zinc finger proteins
1496	EST02534	TX	Zinc finger proteins
2324	EST01352	TX	Zinc Finger Proteins
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Group Key: CS: Cell Surface, DC: Developmental Control, EM: Energy Metabolism, KP: Kinases and Phosphatases, OG: Oncogenes, OM: Other Metabolism, PI, Peptidases and Peptidase Inhibitors, RT: Receptors, SC: Structural and Cytoskeletal, ST: Signal Transduction, TP: Transporters, TT: Transcription, Translation, and Subcellular Localization, TX: Transcription Factors.

EXAMPLE 11

cDNA Libraries Generated From Specific Genomic DNA by Exon Expression & Amplification

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Exon amplification was used to express potential exons from genomic DNA in a recombinant vector that contains some of the signals necessary for splicing. If an exon is present in the proper orientation in the vector, that exon will be spliced in a mammalian cell and will become part of the mRNA. of that cell. The exon splice-product can be purified from other mRNA in the cell by conversion of the mRNA to cDNA and selective amplification of the recombinant splice-product cDNAs. Cosmid DNA from human chromosome 19q13.3 was digested with BamHI or BamHI/BglII restriction enzymes. The fragments generated were collected and size specifically cloned into an expression vector (Buckler, et al. Proc. Nat'l. Acad. Sci. 88:4005-4009 (1991)). After transfection electroporation of these constructs into COS cells, RNA transcripts were generated using the SV40 early promoter and a polyadenylation signal derived from SV40 both present in the expression vector. When a fragment of genomic DNA contains an entire exon with flanking intron sequence in the sense orientation, the exon should be retained in the mature poly(A) + cytoplasmic RNA. Therefore, the mRNA was used as template for cDNA synthesis using reverse transcriptase and vector-priming. Subsequently, the cDNAs were amplified by vector-priming using PCR. A fraction of this first PCR product was reamplified using internal vector-primers containing terminal cloning sites. These products were endrepaired with T4 DNA polymerase, digested with appropriate restriction enzymes, gel purified and cloned into pBluescript vectors. The constructs were transfected into XL1-Blue competent cells and plated on LB/Xgal/IPTG/ampicillin plates. White colonies were selected and expanded to prepare DNA templates as described in Example 2.

When multiple cosmids or YAC clones were used as the source DNA, a pool of specific expressed exons was obtained as a cDNA library. The EST/cDNAs sequenced from this specific library are disclosed herein as SEQ ID NOS: 2412-2417.

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EXAMPLE 12

PCR Amplification from Predicted Exons

Computational analyses can be applied to genomic DNA sequences to predict protein coding regions. The coding region prediction program CRM (E. Uberbacher and R. Mural, Proc. Natl. Acad. Sci. USA 88:11261-5 (1991)) finds open reading frames and classifies them according to their probability of being coding regions. These regions are subsequently examined using the GM program (C. Fields and C. Soderlund, Comp. Applic. Biosci. 6: 263, 1990), which predicts intron-exon structure. PCR primers are then designed to amplify the predicted exons and used to test human cDNA libraries (for example, fetal brain or placental libraries) for the presence of these putative exons using a PCR assay.

This strategy has been successfully applied in two large scale genomic sequencing projects, the Huntington's locus of human chromosome 4p16.3 (McCombie, et al., submitted) and human chromosome locus 19q13.3 (Martin-Gallardo, et al., submitted). Sequences from eleven predicted exons from chromosome 4 were present in tested cDNA libraries, indicating that this region has at least two and probably three expressed genes. In one case, the method resulted in an amplification product which spanned two predicted exons. (SEQ ID NO: 2411.) When sequenced, this PCR product indicated the presence of the two exons from which the primers were initially chosen, as well as an intervening exon which was also predicted by the CRM program, but not the intervening genomic sequences. In a similar fashion, the presence of the two predicted genes in the chromosome 19

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sequence was confirmed by sequencing PCR products. SEQ ID NO 2410, includes a partial exon of one of these genes.

EXAMPLE 13

Complete Sequence of EST Clone Inserts

There are a number of methods known to those with skill in the art of molecular biology, to obtain sequence information from the cDNAs corresponding to the EST sequences. Procedures for these methods are provided in Basic Methods in Molecular Biology (David et al. supra). One way to acquire more information about the cDNA from which an EST was derived is to sequence the remainder of the cDNA clone. The complete sequence of the inserts of four EST clones (representing SEQ ID NOs 188, 189, 223, and 227) was determined using Exonuclease III deletions. Briefly, EST clones were digested with the restriction enzymes Sall and KpnI or PstI and BamHI (for deletions from the Forward primer and Reverse primer ends of the insert, respectively). The KpnI and PstI enzymes, leave 3' sticky ends following digestion, which Exonuclease III is unable to bind. results in unidirectional deletions into the cDNA insert leaving the vector sequence undisturbed. After addition of Exonuclease III to the Forward and Reverse deletion reactions, aliquots of the reaction were removed at defined time intervals and the reaction was stopped to prevent further deletion. S1 nuclease and Klenow DNA polymerase were added to create blunt ended fragments suitable for ligation.

Samples for each time point was purified by electrophoresis through an agarose gel and religated. Two to four representative clones from each time point in each direction were sequenced to give between 200 and 400 base pairs of sequence data. Careful selection of deletion conditions and time points allow a deletion series of approximately 100-200 base pairs difference in length at each consecutive time point. Sequence fragments were reassembled into a redundant contiguous sequence using the INHERIT

software from Applied Biosystems, Inc. (Foster City, CA). In this way, the complete insert from these four cDNA clones was sequenced on both strands to an average redundancy between three and four (each base was sequenced between three and four times, on average). Those complete insert sequences are disclosed herein as SEQ ID 2418, 2419, 2420, and 2421, corresponding to original ESTs with SEQ ID 223, 189, 227, and 188, respectively.

EXAMPLE 14

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<u>Determining Reading Frame, Orientation, Coding Regions:</u> ESTs and Complete cDNA Sequences

Once the complete cDNA sequence has been determined in accordance with Example 13, the reading frame, orientation, and coding regions are determined by computer techniques. (The complete coding region is considered to be the largest open reading frame from a methionine to a stop codon.)

Specifically, the CRM program on the GRAIL server is used as explained in Example 9 to determine probable coding regions. This information is supplemented by location of start and stop codons. Where possible, the results of the CRM analysis are validated by comparison of the cDNA sequence to known sequences using database matching, in accordance with Examples 3 and 4. If a match of 50% (or even less) is found in any particular reading frame and orientation, this serves to verify corresponding CRM results. Alternatively, database matches can be used to determine reading frame and orientation without use of the CRM program. Of course, if the cDNA is derived from a directional library, the probable orientation is already known.

EXAMPLE 15

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Preparation of PCR Primers and Amplification of DNA

The EST sequences and the corresponding cDNN sequences and genomic sequences may be used, in accordance with the

present invention, to prepare PCR primers for a variety of applications. The PCR primers are preferably at least 15 bases, and more preferably at least 18 bases in length. The procedure of Example 5 is repeated using the desired EST, or using the corresponding cDNA or genomic DNA sequence from Example 13. It is preferred that the primer pairs have approximately the same G/C ratio, so that temperatures are approximately the same. When screening cDNA, introns are of no concern; however, when screening genomic DNA, primers should be selected to avoid reading across introns, which usually are too large to amplify. PCR primers and amplified DNA of this Example find use in the Examples that follow.

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EXAMPLE 16

Forensic Matching by DNA Sequencing

20 In one exemplary method, DNA samples are isolated from forensic specimens of, for example, hair, semen, blood or skin cells by conventional methods. A panel of PCR primers derived from a number of the sequences of Example 1, 2, 11, 12 and/or 13 is then utilized in accordance with Example 12 to obtain DNA of approximately 100-200 bases in length from 25 the forensic specimen. Corresponding sequences are obtained from a suspect. Each of these identification DNAs is then sequenced, and a simple database comparison determines the differences, if any, between the sequences from the suspect 30 and those from the sample. Statistically significant differences between the suspect's DNA sequences and those from the sample conclusively prove a lack of identity. This lack of identity can be proven, for example, with only one Identity, on the other hand, should be 35 demonstrated with a large number of sequences, all matching. Preferably, a minimum of 50 statistically identical sequences

of 100 bases in length are used to prove identity between the suspect and the sample.

EXAMPLE 17

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Positive Identification by DNA Sequencing

The technique outlined in the previous example may also be used on a larger scale to provide a unique fingerprinttype identification of any individual. In this technique, primers are prepared from a large number of sequences from Examples 1, 2, 11, 12 and/or 13. Preferably, 20 to 50 different primers are used. These primers are used to obtain a corresponding number of PCR-generated DNA segments from the individual in question in accordance with Example 15. Each of these DNA segments is sequenced, using the methods set forth in Example 1. The database of sequences generated through this procedure uniquely identifies the individual from whom the sequences were obtained. The same panel of primers may then be used at any later time to absolutely correlate tissue or other biological specimen with that individual.

EXAMPLE 18

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Southern Blot Forensic Identification

The procedure of Example 17 is repeated to obtain a panel of from 10 to 2000 amplified sequences from an individual and a specimen. This PCR-generated DNA is then digested with one or a combination of, preferably, four base specific restriction enzymes. Such enzymes are commercially available and known to those of skill in the art. After digestion, the resultant gene fragments are size separated in multiple duplicate wells on an agarose gel and transferred to nitrocellulose using Southern blotting techniques well known to those with skill in the art. For a review of Southern

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blotting see Davis et al. (<u>Basic Methods in Molecular</u> <u>Biology</u>, 1986, Elsevier Press. pp 62-65).

A panel of ESTs or complete cDNA sequences from Examples 1, 2, and/or 13, or fragments thereof of at least 15 bases, are radioactively or colorimetrically labeled labeled oligonucleotides derived from the ESTs, nick translated sequences or the like using methods known in the art and hybridized to the Southern blot using techniques known in the art (Davis et al., supra). Preferably, at least 5 to 10 of these labeled probes are used, and more preferably at least about 20 or 30 are used to provide a unique pattern. The resultant bands appearing from the hybridization of a large sample of ESTs will be a unique identifier. Since the restriction enzyme cleavage will be different for every individual, the band pattern on the Southern blot will also be unique. Increasing the number of EST probes will provide statistically higher level of confidence identification since there will be an increased number of sets of bands used for identification.

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EXAMPLE 19

Dot Blot Identification Procedure

Another technique for identifying individuals using the sequences disclosed herein utilizes a dot blot hybridization technique.

Genomic DNA is isolated from nuclei of subject to be identified. Oligonucleotide probes of approximately 30 bp in length were synthesized that correspond to sequences from the ESTs. The probes are used to hybridize to the genomic DNA through conditions known to those in the art. The oligonucleotides are end labelled with P³² using polynucleotide kinase (Pharmacia). Dot Blots are created by spotting about 50 ng cDNA of at least 10, preferably at least 50 sequences corresponding to a variety of the Sequence ID

NOs provided in Table 7 onto nitrocellulose or the like using a vacuum dot blot manifold (BioRad, Richmond California). The nitrocellulose filter containing the EST clone sequences is baked or UV linked to the filter, prehybridized and hybridized with labeled probe using techniques known in the art (Davis et al. supra). The 32P labeled DNA fragments are sequentially hybridized with successively stringent conditions to detect minimal differences between the 30 bp sequence and the DNA. Tetramethylammonium chloride is useful for identifying clones containing small numbers of nucleotide mismatches (Wood et al., Proc. Natl. Acad. Sci. 82(6):1585-1588 (1985) which is hereby incorporated by reference. A unique pattern of dots distinguishes one individual from another individuals.

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EXAMPLE 20

Alternative "Fingerprint" Identification Technique

EST sequences and the corresponding complete cDNA sequences can be used to create a unique fingerprint for an individual. Thus pools of EST sequences can be used in forensics, paternity suits or the like to differentiate one individual from another.

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Entire EST sequences can be used; similarly oligonucleotides can be prepared from EST sequences. In this example, 20-mer oligonucleotides are prepared from 200 EST sequences using commercially available oligonucleotide services such as Oligos Etc., Wilsonville, OR. Patient cell samples are processed for DNA using techniques well known to those with skill in the art. The nucleic acid is digested with restriction enzymes EcoRI and XbaI. Following digestion, samples are applied to wells for electrophoresis. The procedure, as known in the art, may be modified to accommodate polyacrylamide electrophoresis, however in this example, samples containing 5 ug of DNA are louged into wells

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and separated on 0.8% agarose gels. The gels are transferred using Southern blotting techniques onto nitrocellulose.

10 ng of each of the oligos are pooled and end-labeled with P³². The nitrocellulose is prehybridized with blocking solution and hybridized with the labeled probes. Following hybridization and washing, the nitrocellulose filter is exposed to X-Omat AR X-ray film. The resulting hybridization pattern will be unique for each individual.

It is additionally contemplated within this example that the representative number of EST sequences can be varied for additional accuracy or clarity.

EXAMPLE 21

Identification of genes associated with hereditary diseases

This example illustrates an approach useful for the association of EST sequences with particular phenotypic characteristics. In this example, a particular EST is used as a test probe to associate that EST with a particular phenotypic characteristic.

An EST clone corresponding to EST01643, (SEQ ID NO 1894) maps to a gene rich region of chromosome 6. EST clone HHCMH89, from which EST01643 was derived, was mapped to chromosome 6p21 by Dr. Julie Korenberg of UCLA/Cedar Sinai Hospital using FISH. A search of Mendelian Inheritance in Man (supra) revealed 6p21 to be a very gene rich region containing several known genes and several diseases for which genes have not been identified. The cDNA encoded by EST clone HHCMH89 thus becomes an immediate candidate for each of these genetic diseases.

Cells from patients with these diseases are isolated and expanded in culture. PCR primers from the EST sequences are used to screen genomic DNA and RNA or cDNA from the patients. ESTs that are not amplified in the patients can be positively associated with a particular disease by further analysis.

EXAMPLE 22

Identification of a gene associated with Angelman's disease

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Angelman's disease (AD) is characterized by deletions on the long arm of chromosome 15 (15q11q13) (Williams et al. Am. J. Med. Genet. 32:339-345 (1989) hereby incorporated by The symptoms of the disease developmental delay, seizures, inappropriate laughter and ataxic movements. These symptoms suggest that the disorder a neurologic deficiency. is This prophetic example illustrates how ESTs, preferably obtained from a cDNA library from human brain, may be used in identifying the defective gene or genes associated with Angelman's Disease. example is based on analogous work with genomic DNA, rather than cDNA and ESTs, in identifying the genetic defect associated with Angelman's Disease.) This example also illustrates how EST sequences may generally be used for identifying gene sequences associated with an inherited disease that is mapped to a chromosome location.

ESTs are screened using techniques described in Example 5 and Example 7 to identify those ESTs that localize to the long arm of chromosome 15 and preferably localize to chromosome 15 bands 15q11q13 from normal patients. ESTs that bind to the long arm of chromosome 15 are hybridized to chromosome 15 from AD patients. These studies are preferrably performed using either fluorescence in situ hybridization or using somatic cell hybrids that contain fragments from the long arm of chromosome 15 from AD patients. Those chromosome 15-specific ESTs that do not map to chromosome 15 from AD patients are useful as markers for Angelman's Disease and can be incorporated into diagnostics for genetic screening. These ESTs are associated with deletions present chromosome in Angelman s disease. Identification of the gene associated with these AD negative ESTs and an analysis of the polypeptides encoded by the genes

from normal patients is essential for providing gene or other therapies for AD patients.

Genetic diseases are not always accompanied by gene deletions. Therefore, it is also important to use the ESTs that bind to bands 15q11q13 from AD patients as tools to identify the polymorphisms present within the disease population. Restriction fragment length polymorphism (RFLP) analysis can be performed on patient cells from AD disease or from somatic cell hybrids created using the long arm of chromosome 15. For a review of RFLP techniques see Donis-Keller et al. (Cell 51:319-337 (1987) hereby incorporated by DNA is isolated from the somatic cell lines or reference). from cells from AD patients. The DNA is digested with one or more restriction enzymes according to techniques of Donis-Keller et al. The resulting fragments are separated by gel electrophoresis, denatured, transferred to nitrocellulose and hybridized with the selected radio-labeled ESTs that localize to the region of interest. The autoradiographic pattern is compared both to a number of AD patients and to normal Common patterns of EST hybridization in AD patients that are not present in normal patients indicates that the genes associated with these ESTs are candidate genes affected by AD.

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cDNA libraries are prepared from the somatic cell hybrids from AD patients. Libraries are prepared using Lambda Zap II Library Kits (Stratagene, La Jolla, California) or other commercially available library kits. The ESTs of interest are used as probes to identify those bacterial colonies carrying genes corresponding to the EST probes. Positive clones are sequenced and the sequences are compared to homologous gene sequences derived from normal patients.

Alterations, including deletions and substitutions, within gene sequences, associated with bands 15q11q13, are thus positively identified and associated with AD disease. Wagstaff, et al. were able to identify deletions and substitutions in sequences encoding the GABA, receptor

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protein subunit from patients with Angelman's disease (Am. J. Hum. Genet. 49:330-337, (1991)). It is likely that other genes will additionally be associated with the disease.

EXAMPLE 23

Preparation and Use of Antisense Oligonucleotides

Antisense RNA molecules are known to be useful for regulating translation within the cell. Antisense RNA molecules can be produced from EST sequences or from the corresponding gene sequences. These antisense molecules can be used as diagnostic probes to determine whether or not a particular gene is expressed in a cell. Similarly, the antisense molecules can be used as a therapeutic to regulate gene expression once the EST is associated with a particular disease (see Example 22).

The antisense molecules are obtained from a nucleotide sequence by reversing the orientation of the coding region with regard to the promoter. Thus, the antisense RNA is complementary to the corresponding mRNA. For a review of antisense design see Green et al., Ann. Rev. Biochem. 55:569-597 (1986), which is hereby incorporated by reference. The antisense sequences can contain modified sugar phosphate backbones to increase stability and make them less sensitive to RNase activity. Examples of the modifications are described by Rossi et al., Pharmacol. Ther. 50(2):245-254, (1991).

Antisense molecules are introduced into cells that express the gene corresponding to the EST of interest in culture. In a preferred application of this invention, the polypeptide encoded by the gene is first identified, so that the effectiveness of antisense inhibition on translation can be monitored using techniques that include but are not limited to antibody-mediated tests such as RIAs and ELISA, functional assays, or radiolabelling. The antisense molecule is introduced into the cells by diffusion or by transfection

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procedures known in the art. The molecules are introduced onto cell samples at a number of different concentrations preferably between 1x10⁻¹⁰M to 1x10⁻⁴M. Once the minimum concentration that can adequately control translation is identified, the optimized dose is translated into a dosage suitable for use in vivo. For example, an inhibiting concentration in culture of 1x10⁻⁷ translates into a dose of approximately 0.6 mg/kg bodyweight. Levels of oligonucleotide approaching 100 mg/kg bodyweight or higher may be possible after testing the toxicity of the oligonucleotide in laboratory animals.

The antisense can be introduced into the body as a bare or naked oligonucleotide, oligonucleotide encapsulated in lipid, oligonucleotide sequence encapsidated by viral protein, or as oligonucleotide contained in an expression vector such as those described in Example 25. The antisense oligonucleotide is preferably introduced into the vertebrate by injection. It is additionally contemplated that cells from the vertebrate are removed, treated with the antisense oligonucleotide, and reintroduced into the vertebrate. It is further contemplated that the antisense oligonucleotide sequence is incorporated into a ribozyme sequence to enable the antisense to bind and cleave its target. For technical applications of ribozyme and antisense oligonucleotides see Rossi et al.

EXAMPLE 24

Preparation and use of Triple Helix Probes

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Triple helix oligonucleotides are used to inhibit transcription from a genome. They are particularly useful for studying alterations in cell activity as it is associated with a particular gene. The EST sequences or complete sequences of the present invention or, more preferably, a portion of those sequences, can be used to inhibit gene

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expression in individuals having diseases associated with a particular gene. Similarly, a portion of the EST or corresponding gene sequence can be used to study the effect of inhibiting transcription of a particular gene within a cell. Traditionally, homopurine sequences were considered the most useful. However, homopyrimidine sequences can also inhibit gene expression. Thus, both types of sequences from either the EST or from the gene corresponding to the EST are contemplated within the scope of this invention. Homopyrimidine oligonucleotides bind to the major groove at homopurine: homopyrimidine sequences. As an example, 10-mer to 20-mer homopyrimidine sequences from the ESTs can be used to inhibit expression from homopurine sequences. SEQ ID NOs such as 282, 888, 719, 670, 994, 240, 873 and 761 contain homopyrimidine 15-mers. Moreover the natural (beta) anomers of the oligonucleotide units can be replaced with alpha anomers to render the oligonucleotide more resistant to nucleases. Further, an intercalating agent such as ethidium bromide, or the like, can be attached to the 3' end of the alpha oligonucleotide to stabilize the triple helix. For information on the generation of oligonucleotides suitable for triple helix formation see Griffin et al. (Science 245:967-971 (1989), which is hereby incorporated by this reference).

The oligonucleotides may be prepared on oligonucleotide synthesizer or they may be purchased commercially from a company specializing in custom oligonucleotide synthesis. The sequences are introduced into cells in culture using techniques known in the art that include but are not limited to calcium phosphate precipitation, DEAE-Dextran, electroporation, mediated transfection or native uptake. Treated cells are monitored for altered cell function. These cell functions are predicted based upon the homologies of the gene. corresponding to the EST from which the oligonucleotide was derived, with known genes sequences that have been associated with a particular function. The cell functions can also be predicted based on the presence of abnormal physiologies within cells derived from individuals with a particular inherited disease, particularly when the EST is associated with the disease using techniques described in Example 22.

EXAMPLE 25

Gene expression from DNA Sequences Corresponding to ESTs

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A gene sequence of the present invention coding for all or part of a human gene product is introduced into an expression vector using conventional technology. (Techniques to transfer cloned sequences into expression vectors that direct protein translation in mammalian, yeast, insect or bacterial expression systems are well known in the art.) Commercially available vectors and expression systems are available from a variety of suppliers including Stratagene (La Jolla, California), Promega (Madison, Wisconsin), and Invitrogen (San Diego, California). If desired, to enhance expression and facilitate proper protein folding, the codon context and codon pairing of the sequence may be optimized for the particular expression organism, as explained by Hatfield, et al., U.S. Patent No. 5,082,767, incorporated herein by this reference.

The following is provided as one exemplary method to generate polypeptide from cloned cDNA sequences. The cDNA from the EST of interest is sequenced to identify the methionine initiation codon for the gene and the poly A sequence. If the cDNA lacks a poly A sequence, this sequence can be added to the construct by, for example, splicing out the Poly A sequence from pSG5 (Stratagene) using BglI and SalI restriction endonuclease enzymes and incorporating it into the mammalian expression vector pXT1 (Stratagene). pXT1 contains the LTRs and a portion of the gag gene from Moloney Murine Leukemia Virus. The position of the LTRs in the construct allow efficient stable transfection. The vector

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includes the Herpes Simplex Thymidine Kinase promoter and the selectable neomycin gene. The cDNA is obtained by PCR from the bacterial vector using oligonucleotide primers complementary to the cDNA and containing restriction endonuclease sequences for Pst I incorporated into the 5'primer and BglII at the 5' end of the corresponding cDNA 3' primer, taking care to ensure that the cDNA is positioned inframe with the poly A sequence. The purified fragment obtained from the resulting PCR reaction is digested with PstI, blunt ended with an exonuclease, digested with Bgl II, purified and ligated to pXT1, now containing a poly A sequence and digested BglII.

The ligated product is transfected into mouse NIH 3T3 cells using Lipofectin (Life Technologies, Inc., Grand Island, New York) under conditions outlined in the product specification. Positive transfectants are selected after growing the transfected cells in 600ug/ml G418 (Sigma, St. Louis, Missouri). The protein is preferrably released into the supernatant. However if the protein has membrane binding domains, the protein may additionally be retained within the cell or expression may be restricted to the cell surface.

Since it may be necessary to purify and locate the transfected product, synthetic 15-mer peptides synthesized from the predicted cDNA sequence are injected into mice to generate antibody to the polypeptide encoded by the cDNA.

If antibody production is not possible, the cDNA sequence is additionally incorporated into eukaryotic expression vectors and expressed as a chimeric with, for example, β -globin. Antibody to β -globin is used to purify the chimeric. Corresponding protease cleavage sites engineered between the β -globin gene and the cDNA are then used to separate the two polypeptide fragments from one another after translation. One useful expression vector for generating β -globin chimerics is pSG5 (Stratagene). This vector encodes rabbit β -globin. Intron II of the rabbit β -globin gene facilitates splicing of the expressed transcript,

and the polyadenylation signal incorporated into the construct increases the level of expression. These techniques as described are well known to those skilled in the art of molecular biology. Standard methods are published in methods texts such as Davis et al. and many of the methods are available from the technical assistance representatives from Stratagene, Life Technologies, Inc., or Promega. Polypeptide may additionally be produced from either construct using in vitro translation systems such as In vitro ExpressTM Translation Kit (Stratagene).

Example 26

Production of an Antibody to a Human Protein

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Substantially pure protein or polypeptide is isolated from the transfected or transformed cells as described in Example 25. Concentration of protein in the final preparation is adjusted, for example, by concentration on an Amicon filter device, to the level of a few micrograms/ml. Monoclonal or polyclonal antibody to the protein can then be prepared as follows:

A. Monoclonal Antibody Production by Hybridoma Fusion

Monoclonal antibody to epitopes of any of the peptides identified and isolated as described can be prepared from murine hybridomas according to the classical method of Kohler, G. and Milstein, C., Nature 256:495 (1975) or derivative methods thereof. Briefly, a mouse is repetitively inoculated with a few micrograms of the selected protein over a period of a few weeks. The mouse is then sacrificed, and the antibody producing cells of the spleen isolated. The spleen cells are fused by means of polyethylene glycol with mouse myeloma cells, and the excess unfused cells destroyed by growth of the system on selective media comprising aminopterin (HAT media). The successfully fused cells are diluted and aliquote of the dilution placed in wells of a

microtiter plate where growth of the culture is continued. Antibody-producing clones are identified by detection of antibody in the supernatant fluid of the wells by immunoassay procedures, such as Elisa, as originally described by Engvall, E., Meth. Enzymol. 70:419 (1980), and derivative methods thereof. Selected positive clones can be expanded and their monoclonal antibody product harvested for use. Detailed procedures for monoclonal antibody production are described in Davis, L. et al. Basic Methods in Molecular Biology Elsevier, New York. Section 21-2.

B. Polyclonal Antibody Production by Immunization

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Polyclonal antiserum containing antibodies to heterogenous epitopes of a single protein can be prepared by immunizing suitable animals with the expressed protein described above, which can be unmodified or modified to enhance immunogenicity. Effective polyclonal antibody production is affected by many factors related both to the antigen and the host species. For example, small molecules tend to be less immunogenic than other and may require the use of carriers and adjuvant. Also, host animals vary in response to site of inoculations and dose, with both inadequate or excessive doses of antigen resulting in low titer antisera. Small doses (ng level) of antigen administered at multiple intradermal sites appears to be most reliable. An effective immunization protocol for rabbits can be found in Vaitukaitis, J. et al. J. Clin. Endocrinol. Metab. 33:988-991 (1971).

Booster injections can be given at regular intervals, and antiserum harvested when antibody titer thereof, as determined semi-quantitatively, for example, by double immunodiffusion in agar against known concentrations of the antigen, begins to fall. See, for example, Ouchterlony, O. et al., Chap. 19 in: Handbook of Experimental Immunology D. Wier (ed) Blackwell (1973). Plateau concentration of antibody is usually in the range of 0.1 to 0.2 mg/ml of serum (about 12 μ M). Affinity of the antisera for the antigen is

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determined by preparing competitive binding curves, as described, for example, by Fisher, D., Chap. 42 in: Manual of Clinical Immunology, 2d Ed. (Rose and Friedman, eds.) Amer. Soc. For Microbiol., Washington, D.C. (1980).

Antibody preparations prepared according to either protocol are useful in quantitative immunoassays which determine concentrations of antigen-bearing substances in biological samples; they are also used semi-quantitatively or qualitatively to identify the presence of antigen in a biological sample.

EXAMPLE 27

Identification of Tissue Types or Cell Species by Means of Labeled Tissue Specific Antibodies

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Identification of specific tissues is accomplished by the visualization of tissue specific antigens by means of antibody preparations according to Example 26 which are conjugated, directly or indirectly to a detectable marker. Selected labeled antibody species bind to their specific antigen binding partner in tissue sections, cell suspensions, or in extracts of soluble proteins from a tissue sample to provide a pattern for qualitative or semi-qualitative interpretation.

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Antisera for these procedures must have a potency exceeding that of the native preparation, and for that reason, antibodies are concentrated to a mg/ml level by isolation of the gamma globulin fraction, for example, by ion-exchange chromatography or by ammonium sulfate fractionation. Also, to provide the most specific antisera, unwanted antibodies, for example to common proteins, must be removed from the gamma globulin fraction, for example by means of insoluble immunoabsorbents, before the antibodies are labeled with the marker. Either monoclonal or heterologous antisera is suitable for either procedure.

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A. Immunohistochemical T chniques

Purified, high-titer antibodies, prepared as described above, are conjugated to a detectable marker, as described, for example, by Fudenberg, H., Chap. 26 in: Basic & Clinical Immunology, 3rd Ed. Lange, Los Altos, California (1980) or Rose, N. et al., Chap. 12 in: Methods in Immunodiagnosis, 2d Ed. John Wiley & Sons, New York (1980).

A fluorescent marker, either fluorescein or rhodamine, is preferred, but antibodies can also be labeled with an enzyme that supports a color producing reaction with a substrate, such as horseradish peroxidase. Markers can be added to tissue-bound antibody in a second step, as described below. Alternatively, the specific antitissue antibodies can be labeled with ferritin or other electron dense particles, and localization of the ferritin coupled antigen-antibody complexes achieved by means of an electron microscope. In yet another approach, the antibodies are radiolabeled, with, for example ¹²⁵I, and detected by overlaying the antibody treated preparation with photographic emulsion.

Preparations to carry out the procedures can comprise monoclonal or polyclonal antibodies to a single gene copy or protein, identified as specific to a tissue type, for example, brain tissue, or antibody preparations to several antigenically distinct tissue specific antigens can be used in panels, independently or in mixtures, as required.

Tissue sections and cell suspensions are prepared for immunohistochemical examination according to common histological techniques. Multiple cryostat sections (about $4~\mu m$, unfixed) of the unknown tissue and known control, are mounted and each slide covered with different dilutions of the antibody preparation. Sections of known and unknown tissues should also be treated with preparations to provide a positive control, a negative control, for example, pre-immune sera, and a control for non-specific staining, for example, buffer.

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Treated sections are incubated in a humid chamber for 30 min at room temperature, rinsed, then washed in buffer for 30-45 min. Excess fluid is blotted away, and the marker developed.

If the tissue specific antibody was not labeled in the first incubation, it can be labeled at this time in a second antibody-antibody reaction, for example, by adding fluorescein- or enzyme-conjugated antibody against the immunoglobulin class of the antiserum-producing species, for example, fluorescein labeled antibody to mouse IgG. Such labeled sera are commercially available.

The antigen found in the tissues by the above procedure can be quantified by measuring the intensity of color or fluorescence on the tissue section, and calibrating that signal using appropriate standards.

B. Identification of Tissue Specific Soluble Proteins

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The visualization of tissue specific proteins and identification of unknown tissues from that procedure is carried out using the labeled antibody reagents and detection strategy as described for immunohistochemistry; however the sample is prepared according to an electrophoretic technique to distribute the proteins extracted from the tissue in an orderly array on the basis of molecular weight for detection.

A tissue sample is homogenized using a Virtis apparatus; cell suspensions are disrupted by Dounce homogenization or osmotic lysis, using detergents in either case as required to disrupt cell membranes, as is the practice in the art. Insoluble cell components such as nuclei, microsomes, and membrane fragments are removed by ultracentrifugation, and the soluble protein-containing fraction concentrated if necessary and reserved for analysis.

A sample of the soluble protein solution is resolved into individual protein species by conventional SDS polyacrylamide electrophoresis as described, for example, by Davis, L. et al., Section 19-2 in: Basic Methods in Molecular Biology (P. Leder, ed), Elsevier, New York (1986), using a

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range of amounts of polyacrylamide in a set of gels to resolve the entire molecular weight range of proteins to be detected in the sample. A size marker is run in parallel for purposes of estimating molecular weights of the constituent proteins. Sample size for analysis is a convenient volume of from 5-50 μ l, and containing from about 1 to 100 μ g protein. An aliquot of each of the resolved proteins is transferred by blotting to a nitrocellulose filter paper, a process that maintains the pattern of resolution. Multiple copies are prepared. The procedure, known as Western Blot Analysis, is well described in Davis, L. et al., (above) Section 19-3. One set of nitrocellulose blots is stained with Coomassie Blue dye to visualize the entire set of proteins for comparison with the antibody bound proteins. The remaining nitrocellulose filters are then incubated with a solution of one or more specific antisera to tissue specific proteins prepared as described in Example 26. In this procedure, as in procedure A above, appropriate positive and negative sample and reagent controls are run.

In either procedure A or B, a detectable label can be attached to the primary tissue antigen-primary antibody complex according to various strategies and permutations thereof. In a straightforward approach, the primary specific antibody can be labeled; alternatively, the unlabeled complex can be bound by a labeled secondary anti-IgG antibody. In other approaches, either the primary or secondary antibody is conjugated to a biotin molecule, which can, in a subsequent step, bind an avidin conjugated marker. According to yet another strategy, enzyme labeled or radioactive protein A, which has the property of binding to any IgG, is bound in a final step to either the primary or secondary antibody.

The visualization of tissue specific antigen binding at levels above those seen in control tissues to one or more tissue specific antibodies, prepared from the gene sequences identified from EST sequences, can identify tissues of unknown origin, for example, forensic samples, or

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differentiated tumor tissue that has metastasized to foreign bodily sites.

The entire contents of all refer nces cited above are hereby incorporated by reference.

While the present invention has been described in some detail for purposes of clarity and understanding, one skill d in the art will appreciate that various changes in form and detail can be made without departing from the true scope of the invention.

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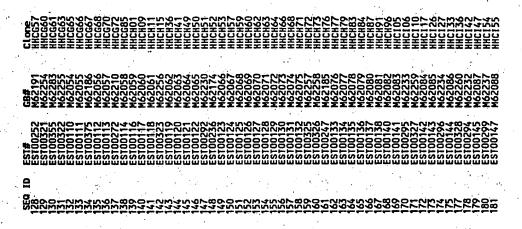
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VII. Correlation of EST and Clone Identifiers

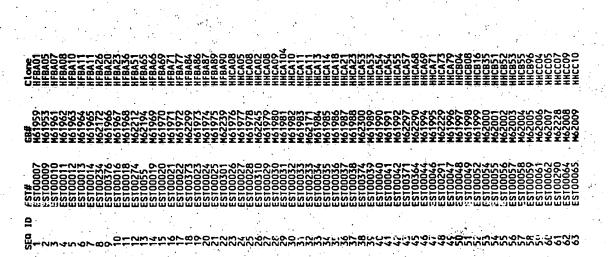
The EST sequences of the present invention are identified herein by SEQ ID NO, and are identified in the GenBank database by a different number, are identified in the inventors' lab (and upcoming publications) by EST number, and clones have been submitted to the American Type Culture Collection (Rockville, Maryland USA) under clone names. Table 12 cross references those different numbers for the ESTs from cDNA, SEQ ID NOS 1-2409.

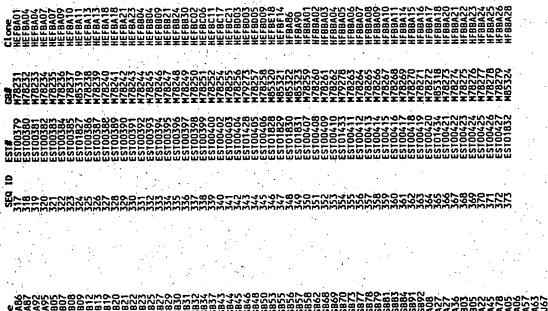
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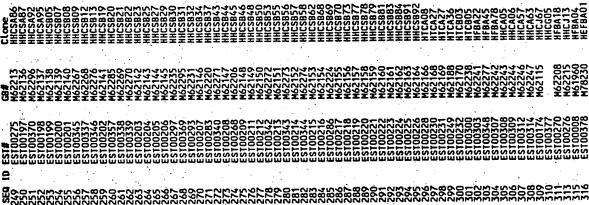
Certain Sequence ID NOS are excluded from some claims based on their homology to known non-human sequences (S e Table 2).

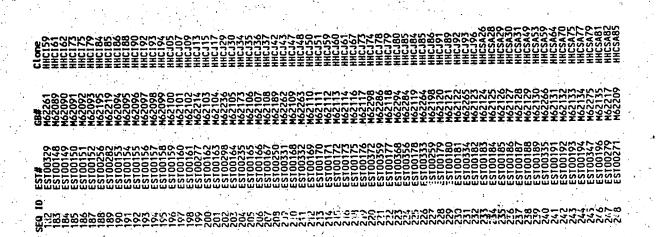


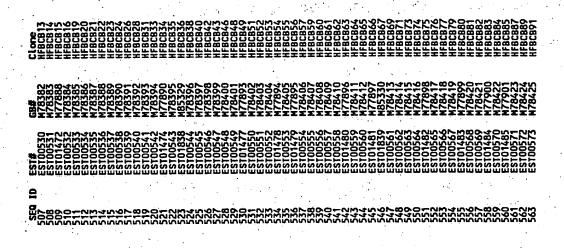


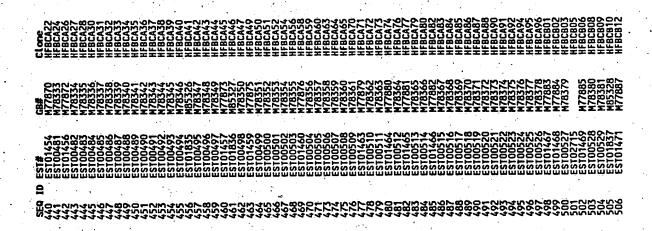


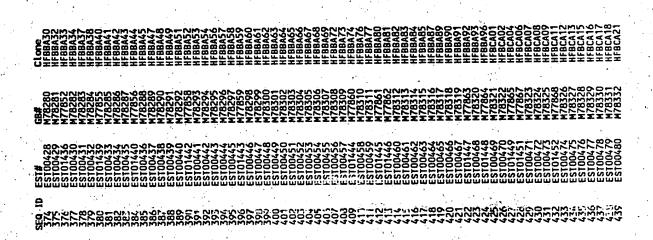


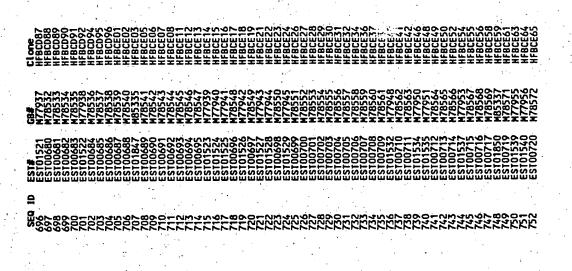


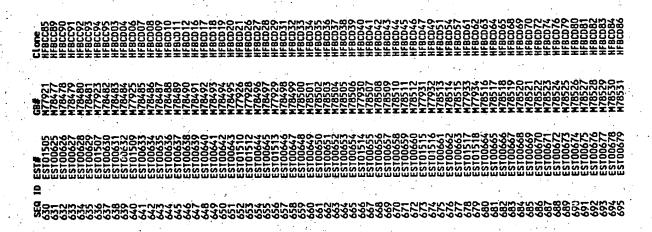


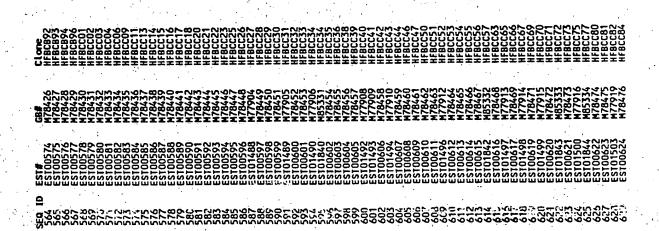


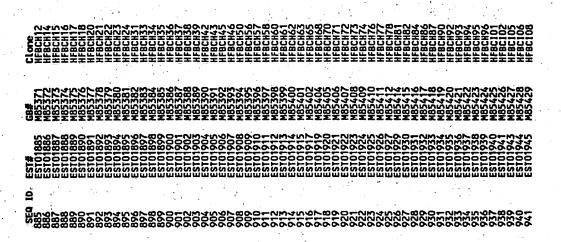


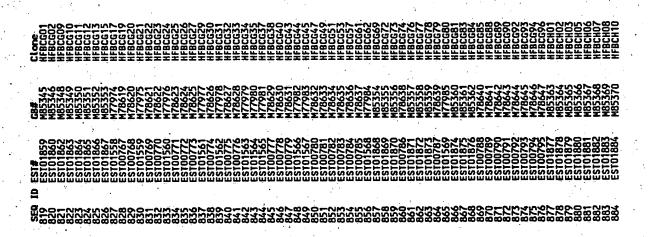


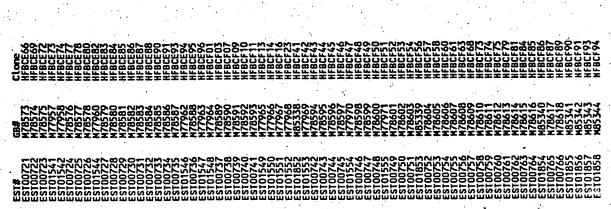


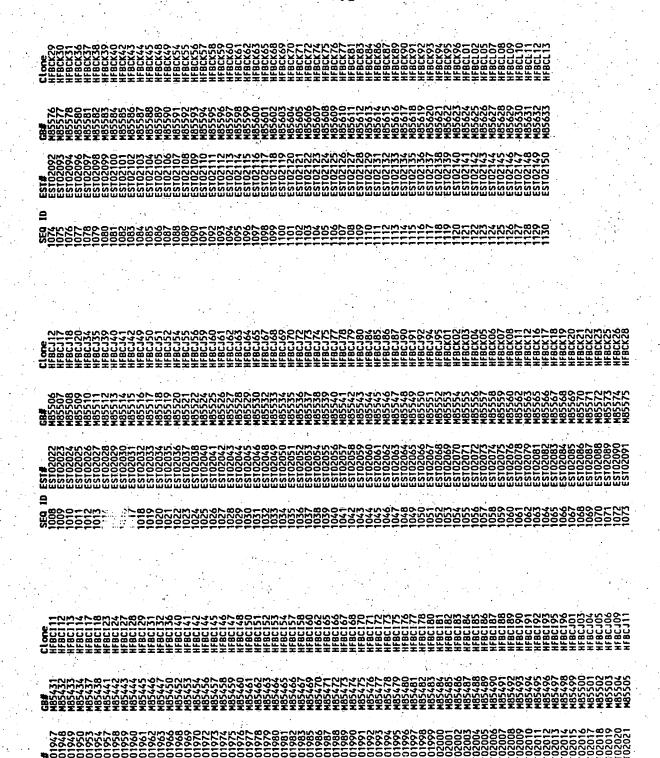


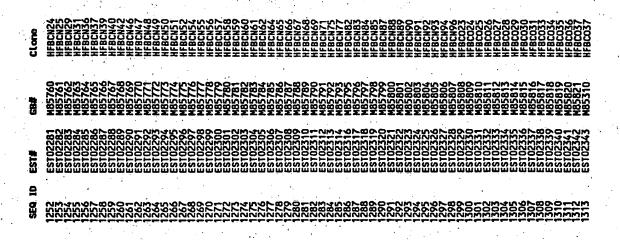


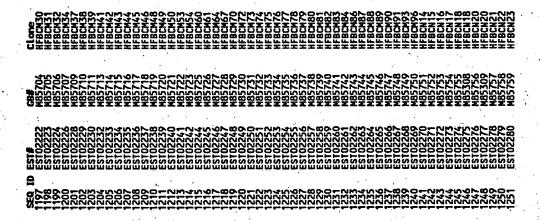


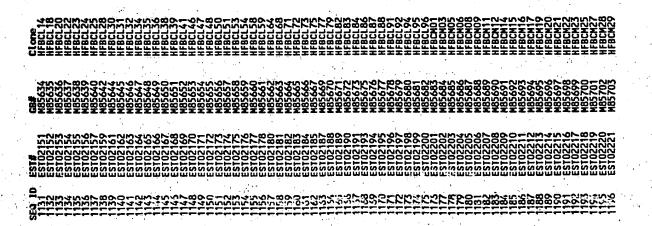


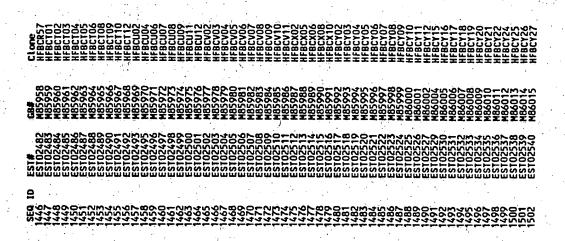




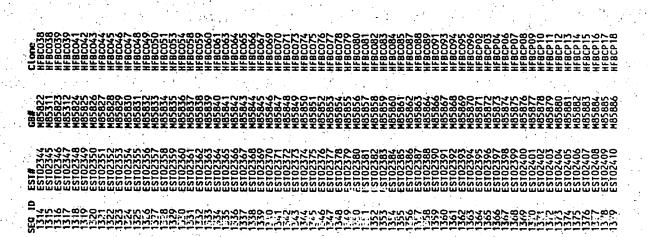


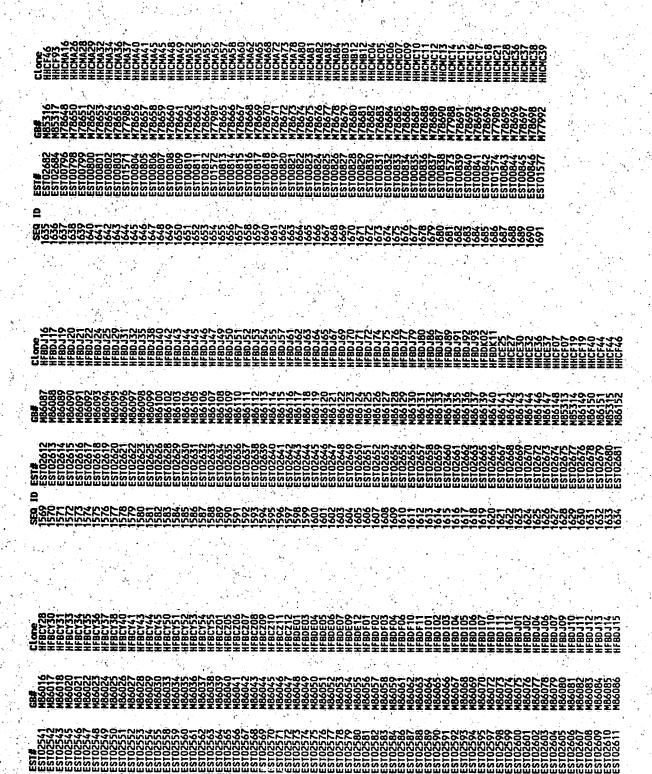


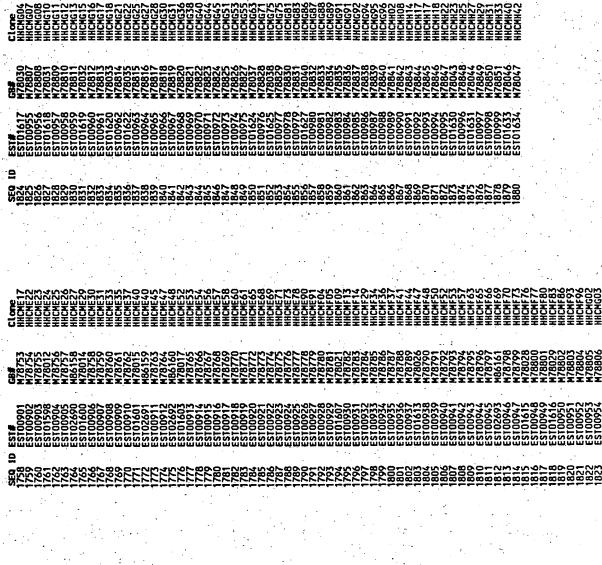




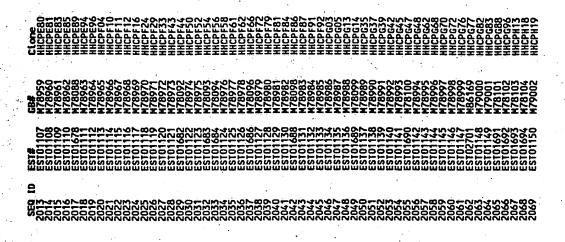


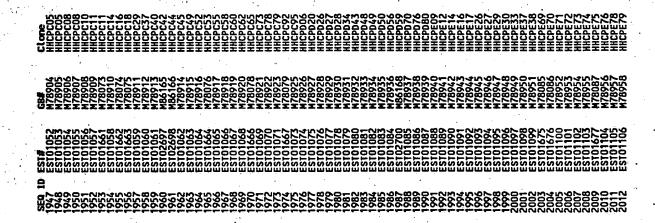


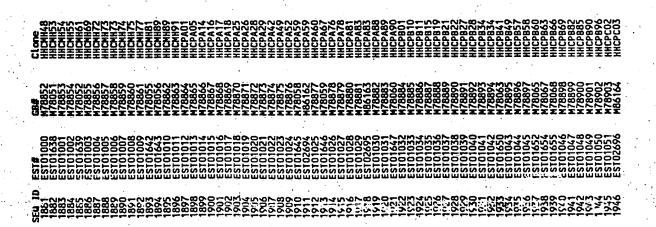


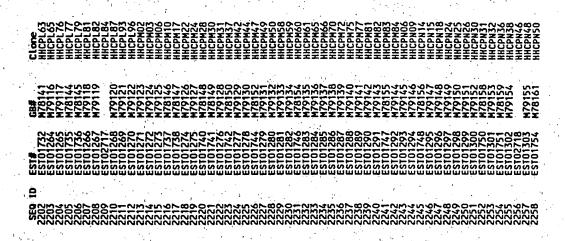


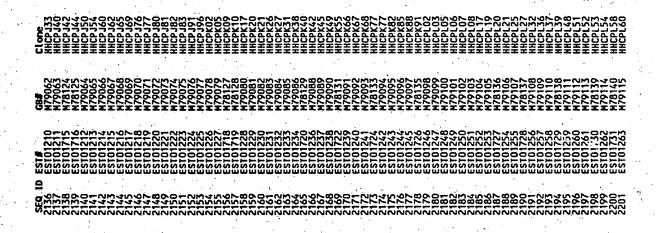
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NOTE REGARDING SEQUENCE LISTINGS: The listings of SEQ ID NOS: 1-2421 are in numerical order. However, an occasional number (for example, SEQ ID NO: 44) is not found in this list. In all, 9 SEQ ID NOS are not used. Nevertheless, the convention "1-2421" is used, for example, to refer to all the SEQ ID NOS in the following list, while "1-315" is used, for example, to refer to all the listed sequences falling between SEQ ID NO 1 and SEQ ID NO 315.

SEQUENCE LISTING

- (1) GENERAL INFORMATION:
 - (i) APPLICANT: Venter, J. Craig

Adams, Mark D.

Moreno, Ruben F.

- (ii) TITLE OF INVENTION: Sequences Characteristic of Human Gene
 Transcription Product
- (iii) NUMBER OF SEQUENCES: 2412 (1-2421, with 9 SEQ ID NOS unused.)
 - (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: Knobbe, Martens, Olson, and Bear
 - (B) STREET: 620 Newport Center Dr. Sixteenth Floor
 - (C) CITY: Newport Beach
 - (D) STATE: CA
 - (E) COUNTRY: USA
 - (F) ZIP: 92660
 - (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: IBM PC compatible
 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
 - (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER: 07/837,195
 - (B) FILING DATE: 12-FEB-1992
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: US 07/716,831
 - (B) FILING DATE: 20-JUN-1991
- (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Israelsen, Ned A.
 - (B) REGISTRATION NUMBER: 29,655
 - (C) REFERENCE/DOCKET NUMBER: NIH004.004CP1
 - (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: 619-235-8550
 - (B) TELEFAX: 619-235-0176
- SEO ID NO:1: (Length of Sequence = 362 Nucleotides)

CTTCCCTFTF GITCCCCTCA GTGTCCCTFT TAATTGCTTC CCTCCATTTT CCTTAGCAGC ATCCTAGTTG ATGSTCTCGGG TTATCAGAGG AGCAAAAACA TITAAGTGTC AAATAATGCT CATTGTCTCC CTGGGATTTC TAAACAGAAA AAATGAAGAA AGAGGCAGAG AAGAGCTTCA CAAGGTGTGT GCCAGCTCTG CATCATTTCC AGCTGCTCAA CCACCATTTC TCCCATTTTA
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SEO ID NO:2: (Length of Sequence = 214 Nucleotides)

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SEQ ID NO:3: (Length of Sequence = 344 Nucleotides)

SEO ID NO:4: (Length of Sequence = 352 Nucleotides)

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SEO ID NO:5: (Length of Sequence = 562 Nucleotides)

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SEO ID NO:6: (Length of Sequence = 359 Nucleotides)

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SEO ID NO:8: (Length of Sequence = 345 Nucleotides)

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SEO ID NO:9: (Length of Sequence = 189 Nucleotides)

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SEO ID NO:10: (Length of Sequence = 267 Nucleotides)

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SEQ ID NO:11: (Length of Sequence = 247 Nucleotides)

CTCATAAAGC CAGGGGATA AAAWIGGTAG TITCATGITA TCTACAAGRC TAAGKTCAAA ATTCCATGCA TGTGCTGRTA AAAGACCCAT NATGGKCCIM ACTGTACTTA CTCCCCATTT ATTAGCATTC ATTCTGGTCA CCAGCTCTAG TTCCTCTGCT TAGCCAATCT CGCTTGTCTT CAAGATGTCA TTCAAATGTC ACATTTTGTG GGAAGCCTTG CCTTTTTTGA CACGGTCTCC CTGCCAC

SEO ID NO:12: (Length of Sequence = 280 Nucleotides)

AAGGCGAGAG GCITCIGGAG AAACCCACCC CACCAACGIC TIGATCITGG ACTITTAVCC TCCAGAGCIA TGAGAAAACA
AVITICIGIV VATVGVGGCC ACTCAGCCIG TGGATACTGG CAGCCCIAGC AAACTCATAC ACACATACAT TITAAACTCG
GTTTAATCCT GIGRCCATTC ACTTATGGIT CAGITTITAA ATAGTCCIAG TCTTATGVCC ACIGITAAAG TTCACCAGGA
CATAGGSCAT TGGGGAAAGG GGCCTGTAAC TCTTGGATTA

SEO ID NO:13: (Length of Sequence = 339 Nucleotides)

VCIVICIVOC AACITCATIC AGATATIGAC TOTGGTGATG GGAACATIAA ATACATICIC TCAGGGGAAG GAGCIGGAAC
CATTITIVIR ATTGATGACA AATCAGGGAA CATTCATGCC ACCAAGACGI TGGATCGAGA AGAGAGAGCC CAGTACACGI
TGATGGCICA GGCGGTGGAC AGGGACACCA ATCGGCCACT GGAGCCACCG TCGGAATICA TIKTCAAGGK CCAGGACATT
AATGACAGIC CTCCGGAGGI TICCIGCACG AGACCIATCA TGCCAACIGI GCCSTGTARA GGICCAATKI TGGGTGSTGI
ACGGTAGIGG GGAGGCCTG

44.77

SEO ID NO:14: (Length of Sequence = 342 Nucleotides)

GOGVECAAAG TAGCAGATTC TAGTAAAGGA CCAGATGAGG CAAAAATTAA GGCACTCTTG GAAAGAACAG GCTACACACT
TGATGTGACC ACTGGACAGA GGAAGTATGG AGGACCACCT CCAGATTCCG TTTATYCAGG TCAGCAGCCT TCTGTTGGCA
CTGAGATATT TGTGGGAAAG ATCCCAAGAG ATCTATTTTG AGGATGAACT TGTTCCATTA TTTGAGAAAG CTTGGACCTA
TATGGGATCC TTCGTCTAAT GATGGATCCA CTCACTGGTC TCAATAGAGG TTAATGCGTT TGTCACTTTT TTGTACAAAA
GGAGCARGCT CAAGGAGGGC TG

SEO ID NO:15: (Length of Sequence = 354 Nucleotides)

ATGITGATEC TGAAATTVAA GATCCACCAA TICCAGAAAA ACCATGGAAG GITCATGIGA AATGGATITI GGACACIGAT
ATTITCAATG AATGGATGAA TGAGGAGGAT TATRAGGIGG ATGAAAATAG GAAGCCIGIR AGITIYCGIC AGCGGATITIC
AACCAAGAAT GAAGAGCCAG TCAGAAGICC AGAAAGAAGA GATAGAAAAG CATCASCTAA TGCTCGAAAG AGGAAACATT
CGCCTTCGCC TCCCCCTCCG ACACCAACAG AWTCACGGGA AGAAGAGIGG GAAGAAAGGC CAAGCTAGCC TITTATGGGG
AAGCCGCAAG AAGTCCAGAA AGAGGGWWGG TIGA

SEO ID NO:16: (Length of Sequence = 348 Nucleotides).

CAGGCAAGIT TCITCCAGGA TGAGAAATCA GIGGAAAGTG AGGCCAGCC AACAGCCACC ACCAACCACC CAACACGCGA GCGAGACCAT CITAAAAGAG CCCCAGCCAA GCTGACCATG GGTCTGACCC CAAACTGAAG AAATGCCCAG CCCAGCCAAA CCCCAAATTGC TAACTTGTAT TATAAGCAAG TACAATGGTC CTTACCTTAA GCCACTAAGT TTTGGGATGC TTTGTTACAC AGCTATAGAT AAGCTGATAC AGGGAATGTC AGAWTCCATG ATGAGAGACC GAGCCTTTCA KTCTGTCAGA GGYACCTTVG GTTGGCAAAA CTTCAAAAAG AGGGACCT

SEO ID NO:17: (Length of Sequence = 415 Nucleotides)

AGCAYGGGCT GGGGGGCCGG GAGITAGGGC TGGGGCTTGT TTTACGCTCT GCCCCCCACA CCCCCTCCTC TTCCGTCCTG
ATTAAGCCCA AGGGITGGIG GACITAACTT TCAGCCCATC TCTAAGGGIT TCACAGACTG GATCTTTCTA AACTTTATTG
GGTACCTGCT TCCCCTTTTC CCTGGTAGTT TTCATCTACA AAAAGTCAAA ACCTGATCGA AATAGAAATA AGATCATCAA
ATTGGACCAT TCTCTTAGGG TTCGAGTGIG CCGGCCAGAC TGGCATTCAG TACACGCTGA GATCCAACCA CATCACACTG
GCCTCAGGTC ACCAACTCGC CACTCAGGGC ACAAGGCCTG CCCTTGTGGT CACAAGGCTT TCCTTAATGT CGTCGGTGCC
CAGGTGAACC ACAAG

SEO ID NO:18: (Length of Sequence = 356 Nucleotides)

GIATGIAIGI CIGIAGGIAT TICIATACIT AACCATCIGI GICCCAATIA AGCIAAACAT GATICATICI GATGCCAACC CCCATCCATC AIGCCAIGA TCGCICTAGA CITCTICCCI TGIAACCICC CACICAAACA GIGAGAAACC TITGCCCAGI ATGITTIGGA GIAACCICAC TGGGAGTTIG CAGICCCACI AGATGAATGC CAACCCATTI GITCATITAA AAGGACITTI GGAACCATAG AGCAATGGCI GGGCTGGGTC TVGCACGTTC ATCITGACTG AAACAATTGG CCATGAAGGC ACTIGCCAAG GAAACTCIAG GGGCCACAAG GGTCCTGGT GCTTGC

SEO ID NO:19: (Length of Sequence = 339 Nucleotides)

CATGCITCCA TITITITIAG TITIAAACCA CCAAACCAAT ATTITYCCIT TAAATITAA TCITATAATA TAGAAATCIT ATGIAAACAA AATTITGICA TGITICAAAT AAAGAGAACT GAAGTAGAAA ATAGAAATGC CAGTAAACAA CATAATGITT AATTITACAAC TIACATTAGG GGITIGGGG VATGCIAATT ATATATTGAG AATATACATT AGAACTCITC AAAATGGCT CTICIAATGA GGICACTACT GAACATAATT GITCCCTCTT CTGITAAATA GAATAGGTTT AAATGACTAG TCCAAATGA ATTATTGCCT TCIKGITAA

SEO ID NO:20: (Length of Sequence = 437 Nucleotides)

AGAACAAGGG AACTCAGCAG CCCCTCCCTT CCCATCAGCT GITCCTGAGA GATGCAATAT AGTAGTCATC GACATCATCC
TTATCAACAG CATCATCACT CAGACAGTGG TGAAAGTCIT TCTTCACAAG GAAAAACAAA GATAAAGAAA TACATGAGCA
TTAATCAGAA ATTTTCAAAG CITGGATTCI AATGATATGC ATTATCATTA GACATTCAAA TGCTATACAT CTTCTGATGA
AGCCTCCTTG ACAGCAGCTA CACTTATTTC ACATTAGAAT GCCTAGAGAA ATCCTGACTG CCCAGCTTGG TCATGGGACC
TTCCCCACTC TCCTCTTGGA GGAATGAAAA GATGTGGCGG CTTTCTACTT TTGCTACTGA GCTGGGGTAT ATGGCTAGGT
CCACTTTCTA AGGGGCTTGG AAGGGTTATT CCATCTG

SEO ID NO:21: (Length of Sequence = 385 Nucleotides)

GITTGATTIG CITTTTTTT AGAGITTTAC ATCAGIGITT TICAGGAATA TIGGICITIC ATTITCITIT CITGGAATAT
TITCIAGITT TACTITGICA GAGIAAATIC TGGCITCACA GAATTATTIG TAGICICICC TGICITGGIT TATICATGCT
GCIATAACAA AATACCACAG ACAAGGIGGT AATAAATAAC ACAAATTTAT TITTCCCAGI TCIGGAGGCT AGGAGITCAA
GAAGCIGGCA AGITCAATGI CIGGIGAGAC CCATTCCTTC ATAGGIGGCA CCATCIAGGG GICCITACAT GRCAAAGAGA
TGGAAGGGCC AAAAAGATGG TGACCTATTG TGAGGCCTTT TITAAAGGGC CTTVAAATCC CAGIC

SEO ID NO:22: (Length of Sequence = 374 Nucleotides)

ACCITCATEG TCATGAAGGC CATGCAGTCT CTCAAGTCCC GAGGCTACGT GAAGGAACAG TITGCCTGGA GACATTTCTA
CTGGTACCIT ACCAATGAGG GTATCCAGTA TCTCCGTGAT TACCTTCATC TGCCCCCGGA GATTGTGCCT GCCACCCTAC
GCCGTAGCCG TCCAGAGACT GGCAGGCCTC GGCCTAAAGG TCTGGGAGGG TGAGCGACCT GCGAGACTCA CAAGAGGGGA
AGCTGACAAG AGATACCTAC AAGACGGGAG TRCCTGTGCC ACCTGGTGCC GACAAGAAAG CCGAGGCTTG GGTCTGGGTC
AGCAACCGAA TTCCAGTTTA GAGGCGGATT TVGGTCGTKG ACGGTGTCAG CCAC

SEO ID NO:23: (Length of Sequence = 322 Nucleotides)

CAAAACGTGA TCACCACAGC TCCGTTCCTG CAGTGACACT TAACATACTC AGCATCTTCA TGAATTCTGA ATAATTTACT
GATCGTAAAG TCTAAAAGTA TCAATTTCAG GTGAGCAGTT TTAAATCAGA AAATAGTCAA TAGTTAATCA TGACTCTTCA
GGGTATTTCC TTCACGTCCT CTGAAGAGTT TCCCAGAACA TTCTTGTGAA AAGGAATGCC TCCCAACAAT GGAGAGCAAC
AATAGCAACA GGCATCTGAA TCAGCCTGGC CTCTGAAAAC AGACCANAGA GGAGTTTATC TGTTTCTTCC AGTGGAGGAA
GG

SEO ID NO:24: (Length of Sequence = 113 Nucleotides)

CCTGAAATCG GAGTCTTTTG GACTGACTCC AAATTCAATG GGTGGCACAG GCAGCACGGA GTCCACGTGA ATCTCCACCC CGTTAACAGG CGGGACGACA GCCCCTTGCA GCC

SEO ID NO:25: (Length of Sequence = 399 Nucleotides)

GGAAAGAATG AAGGAAAAAC AAGACAAAAT CTACTTCATG GCTGGGTCCA GCAGAAAAGA GCAGACGCTG GCCTCAGACA
CAGACAGCAG TCTTGATGCC TCGACGGGAC CCCTTGAAGG CTGTCGATGA TAGGTTAGAA ATAGCAAACC TGTCAGCATT
GAAGGAACTC TCACCTCCGT GGGCCTGAAA TGCTTGGGAG TTGATGGAAC CAAATAGAAA AACTCCATGT TCTGCATGTA
AGAAACACAA TGCCTTGCCC TACTCAGACC TGATAGGATT GCCTGCTTAG ATGATAAAAT GAGGCAGAAT ATGTCTTGAA
GAAAAAAANTT GCAAGCCACA CTTCTNGAGA TTTTGTTCAA GATCCATTTC AGGGTGAGCA GTTAGAGTAG GTTGAATTT

SEC ID NO:26: (Length of Sequence = 350 Mucleotides)

GATTGGTATA CGGCCAACAA TGGATTGATA GCCTTAATAT AGAAATAGTT CCAGCAGGCC AGATGCAGTG GCTCAATTCT GTAAACCCAG TGCTCTGCAC AGCTAGGAAG GAAGATCACT TGGGCCCAGG AGTTCAAGGC TCCAGTGAGC CATGATCACG CCACTKCCTC CAGCCTGGGT GACAGAGTNA GGCCCTGTCT CTAAAAAATG AAATAGCTCC ATCAAGTCAA TAATTAAAAG TTCAACAGCC CAACAGANCA AAAATTGTAA ATGANCACAA ATTAGAAAAT GTACAAATTA AATATTAATG ACCCATAACC CTATAAAGGGA AAGTTTAACC TCTCTAGTAT TTTTT

SEO ID NO:27: (Length of Sequence = 322 Nucleotides)

AAAACGTGAT CACCACAGCT COGITCCTGC AGTGACACTT AACATACTCA GCATCTTCAT GAATTCTGAA TAATTTACTG
ATCGTAAAGT CTAAAAGTAT CAATTTCAGG TGAGCAGITT TAAATCAGAA AATAGTCAAT AGTTAATCAT GACTCTTCAG
GGTATTTCCT TCACGTCCTC TGAAGAGTTT CCCAGAACAT TCTTGTGAAA AGGAATGCCT CCCAACAATG GAGGAGCAAC
AATAGCAACA GGCATCTGAA TCAGCCTGGG CTCTGAAAAC AGACCAAAGA GGNGTTTTC TGCTTTCTTC CAGTGAGGAA
GG

SEO ID NO:28: (Length of Sequence = 287 Nucleotides)

TATTITIATI AAAGGACCAC CCIGGCIGIM GIGAGATGAA IGGATICAAA CAGGGCAAGA GIGGATACAG MGAGATAAGI TAGGAAGCIG GIATAGAAAT CIGGATGAGA TATGGIGGCI TGGATGATAC TAGCAGTGAG TATGGGAAGI AGGIGGATTA CITTACACIT TITTAGATCA GICKATTCIT GATGICITGA AGACAAATTA ATCTCATATA TAACTCTAAA CAACATATIT ATATTICATG TAAATAAGGA TAATGCIGAC CAAATATTAG CACCITT

SEO ID NO:29: (Length of Sequence = 282 Nucleotides)

CAGGCAGGG AAGCCTGGAA GCAAAGGAGG ACCTGGCTCC TGACTCTCAG AGAGGATAGG CTGGGATCCC TGGGGCAGGC
CTGTTCCTTG GCTGGCCAAT TTAGTCTTTC AATTGTCTAA GGGCTCTCCA TTGCCTGCCC TTGCCTCTTT CTAGCCTGTT
ATTTCTAGGC TCCTCTGAAT AAATCTCAGG TTTCCTACTG TCATGCCTTT AGTTCAAAAA TGAGAATCTG CCCTACAGTG
CTGGCCTCCT TCCGGCCTGA AAGCCAGCAC CTTKCGACCC GG

SEO ID NO:30: (Length of Sequence = 345 Nucleotides)

GAAGCIGGIG AATACATITIC AAGACACAAC ATGGCACCIG TGICTAGCIC TATGGIACAA CAIGGIACTA TGACACATAT

AATGGGIIGC CAGATGGGGA AGGCAGCITC TCIGCAACIG AGCTGAGAIC TCAAAATAGA CAAIGTCAAG ATGGAAIGAG

AAGGGAAAAA CAGCATGIGI AGACAGGIAG TGACAAAAGG CTAAITAAGG ACTGAAAGAA ACCAGIGGCC AACAAGGGAA

TCIACGGGIG ATAAAGATAA GACGGIGAGA GAGATAAGGC TAGAITGTAT AAGGCTIGAC AGACCATAGC AAGATAAGCA

AGGACCIGIG TCCIGITTAAC CATIT

SEO ID NO:31: (Length of Sequence = 343 Nucleotides)

ATAAAATTGG TCTGGGTACC CTAAGGTGTT TGCKTTGATA GAAAATTGAC ACCCCAAACT AAGTGTTCTA CTTAGCTTCT ACAATAGTTA TTCCTAGACC TTAGATTAGT CATTACATTT TTATTTAAGG TACTATGTTA CTTTCATGAC TACAAAATGA GGCACTCGTA CAAAACAGGA ATGAAAACAT ACATATACTG TCTTGTCTTT ATGTCGTATT AATGCCAAAG ATATTGTCAG GGATTATTTT AAAGAAGCCC TTACTCATGA TGGCTATTTT TAAAAATGGC ACAGGACAGT AACAGGCTGA AAAGAAACAC CTGGTTTGAG GGGCCAAATT AAG

SEO ID NO:32: (Length of Sequence = 153 Nucleotides)

ACAGGATGGT CAGGACAAGC CACCICTGGT AAAGTGACAT TTGAGANGAC CCCTGAAGGN GGGGGGTTGA GTCATGTGGA CATCTTGAGG AAGAGTTTAC TGGCACAGGG AACTGCAAGG KCAAAGTCCC CAAGTACTAG GGCTGGGGGC AGT

SEO ID NO:33: (Length of Sequence = 257 Nucleotides)

TCAGTCAGCT TATCGCAGGT GCAGCCAAAC ACAAAGCTTC AGGACAAATT GTACAAACTT TACAATGTGG GATTTAAATT
TAAAATATGA TACATAAAAA TCTACACAAA ACTGATAAAA ATCAAGCACA GNTACCAGGA TTGAAACTTA TAATAATCCA
TGTGTGAAAG GGAGTCTTGT TTCCTTTCAA GTGCTTTTAT TCTGCTATGG AACAGTCAAA ATGGAAGNTG TAAAGCTTTG
TGGTTAGTTT AAATTAT

SEO ID NO:34: (Length of Sequence = 307 Nucleotides)

CTCCCACCCA TATCIAATCC AACAAGTCCA GCTGCCTCTC TCINAAMAAT ACCNARGATC AGGCCCCTTC TCAGCACCCC CACAGCTGCT GCCCCAAAAGG AAGCCACGTC ATCTCTCACG GAGATTGTKC AGCAGCCACT GCCTCCTTGT CACCTTCGCC TGTGGTCATT CTCCCCACAT GGCCAGGGAA TGCGTCCTGT TAAAGTCTGC TAGGTCACGG TCCTTCCTAC TCAAAATGCT CCCYTGGCTC CCACTGCCCC CAGAGTAAAA AGCCCAGACC TTCAAATGAC ACAAAGGCCT ACAACGA

SEO ID NO:35: (Length of Sequence = 266 Nucleotides)

TOCACAGGTO ATCAGATROO TECINGATAA TATATAAACA GTAAAAACAA CITTCACITO TICCIATINI AATOGIGTEC CATEGATOIG ATCIGIACCA TEACCOTACA TAAGGOTEGA TEGACOTCAG GOTEGAGGGOO CAATGIATGI KIEGOTGIGG GIGIGGITEG GAGIGIGIOT GOKGAGTAAG AACACGNITI TOAAGATIOT AAAGCICAAT TMAAGIGGOA CATTAATRAT AAACTOAGAT CICNICAAAA GTOOGG

SEO ID NO:36: (Length of Sequence = 388 Nucleotides)

CAGCTITICEA AAGACTITICA CCTCTGAACA AAAAGCCAGA AGGCTGCTTA AAGAAATAGT AAGGGTTTCA CTTGCCCTGG
ATAGTCACAA ATCTAGGAGT ACTGGTTCAC TGCCTTGGGT TACCAGGTAT CAGCTCTTTC ACAATCTCTC CTCTTCCCAT
GCTTCCCCTT AAAGTCCAGT TGACAAATGA AAAAGAAAAA AAGGCCTTGA TTTATAGTAT TGCCAAACAA CCTCATAAGA
ATGGGTAAAA TTACATACAC ACATACATAG AGAAGGGAGG TAATGCTGTG AATCTACTTG AGCTGGATTG CATGCTCCCT
AGGGACCACG GTGCCCAACC TGTAATTTTA TTTCTAACTT TTATAAATAT ACTCCTTTTT CACGGATG

SEO ID NO:37: (Length of Sequence = 342 Nucleotides)

GAATGICIAC ACAAGGAAGT ACAGGATTIG GCTTTCTAG ATGICATATC CAAACTICGC AGTCATGAGA ACAAAAGIGT
TGCCCAGCAG GCCTCTCTCA CAGAGCAGAG ACTTACTGIG GAAAGCIGAG AACTGCCCGA TACACGGCAT CATCCCATCT
CTAATTTCCC CICIGTCCTC CATCCAGCGG CTTCTTCCGC TTCATTCTCT ACCATACCAC TIGIGCATGC ATGIRATGIT
CTAATACCAA TTGAAGAACC GCTGTAGGTA CCTCCCTAAT AAGGATTTCT AAACCTATAG TTAGTGTGAT CATGACTITG
GTCAAAGGCA AGTYTCCCAC CC

SEO ID NO:38: (Length of Sequence = 355 Nucleotides)

GATGACTIGG AGAATGCCGA AGAGGAAGGC CAGGAGAATG TCGAGATCCT CCCCTCTGGG GAGCGACCGC AGCCAACCAG AAGCGAATCA CCACACCATA CATGACCAAG TACGAGCGAG CCCGCGTGCT GGGCACCCGA GCGCTCCAGA TTGCGATGTG TGCCCCTGTG ATGGTGGAGC TGGAGGGGA GACAGATCCT CTGCTCATTG CCATGAAGGA ACTCAAGGCC CGAAAGATCC CCATCATCAT TCGCCGTTAC CTGCCAGATG GGAGCTATGA AGACTGGGGG GGTKGACGAG CTCATCATCA CCGACTTGAG CTGGAGTCAT CTTTCCTGMC CTTTGCCCCA TGCCC

SEO ID NO:39: (Length of Sequence = 303 Nucleotides)

GCCAAAAACA NYTCTGAACC CGTTTTGGGA AATAATGGGA TTCCTTGATC ACGGGACAAC GAATCACCCT GAAGTTTTTC
TCCAGTTTAC TCAGTCACAT AAGCCACCAG AGGCTAACCA CACTGACAAC AAAAGCAAGT CCCAGGATTC CGGGGGCTAA
TACCATGCTA GGCATTACTT GGGAAGTTAT GAGTTGGTAT ACATCTGTGA ATTTGGTGGG AGGAGAAAC TAACAGTAAA
TTTATCAAAG CCAGTGGTAC GTTCAGCGTT ATAAAAATTA CAAGGATCTG CTTCTCGGCG ACT

SEO ID NO:40: (Length of Sequence = 178 Nucleotides)

GGTGTCGGGG GCTAGAGATA CACATGCCAG INCTATACAT TICTCAGCAC IGIGCIGICG ATTCACAGCA GITCAATTGT TCATGCGATA TAAGCCAGTC ATGIGGCCCA AGITATTCIG TCGGCTGTGT TCTCTGCAGG AATCTGATGC AAGAAGGCCT GAAGGATGCA TGGCTTTT

SEO ID NO:41: (Length of Sequence = 322 Nucleotides)

TECCTITCTT TAGAAATTTA GGGCAGIGIG ATECTTCCAG AGGICIGIAC AAACACCAGC TITICATIGIG CITGGGAGIT
TCCATGCCIC TYCCITCICT TCGCITAGIG CACGITTCIG CITITTATCA GITTGACTGC CIGAGACTGA KICCAACAAC
CCAAACIGAA CGCICAGCIC CICCKTITCA AAGGAGGATG ACTINICINA ACAACIATIT AGGIGAATTA TIKCKACAGT
TTATTAAAAGC AATGGCICTA AACAAATTCC ACTGGGGGIG ACAAAGTACA ATACAAAAGG CGTACTCIGA GGGCTTGGGG
GT

SEO ID NO:42: (Length of Sequence = 278 Nucleotides)

AAACTITIGGC ATTITITATIC AGACACGIAT AAAAACAAAA CAAAAAACTI CAGTGATACA ACAGACGITT TCCCTTAGIT CCCCATCCAA GGGGACAGAG GIGIGCAGCT GAAGCIGGAY CITTITITCIG TCCTACCIGG AAGCIGICTC ACIGCIGGAT GAGAATGGCT TCTAAAAGIG GATCTIGGGG ATCCTIGIGA ATTIGCCCTC GGATAAGGAG TGAAGWICAT TTACGGCACA TGIGGATTAT GGITTACACA AAGATGICCA GITATTIT

SEO ID NO:43: (Length of Sequence = 225 Nucleotides)

AGATCAAAAG ATGAGAGAAG CTGAAACAGA ACCGCATGAG GGAAAGAGGA AAGTGGAATC TCTGTGGCCC ATCTTCAGGA TCCACCACCA GAAAACCCGT TACATCTTCG CCTCTTTTAC AAGCGGAAAG CCAGCAGCAG GATCTCTAGG AATATTAGTA TTAAAGAAGG CTATGCAGCA TAAACCTGAT TTCAAAATGG TAAAAGCAAG GTTATGTGTA CTTGT

SEO ID NO:45: (Length of Sequence = 305 Nucleotides)

GEATTGCCAG GAGCTGTTCC AGGTTGGGGA GAGGCAGAGT GGACTATTTG AAATCCAGCC TCAGGGGTCT CCGCCATTTT
TGGTGAACTG CAAGATGACC TCAGATGGAG GCTGGACAGT AATTCAGAGG CGCCACGATG GCTCAGTGGA CTTCAACCGG
CCCTKGGTAG CCTACAAGGC GGTGGTTTTG GGGATCCCC ACGCCGAGTT CTGGCTTGGG TCTTGGAGAA AGGKGCATAG
CATCACGGGG GGACCGGAAC AGCCGMCTGG CCGTGCAAMC TGCGGGGACT GGGATGGGCA AACGC

SEO ID NO:46: (Length of Sequence = 264 Nucleotides)

ATGAAATAGC ATATCINNGC CTAATTAAAA GATTCCATTA CATTTACTTT TATCATTTAT ACTGCCAAGG ATCAGTCACA
AAAAATTCAA ATTATACATA TTATTCATGC TITAATTTCA TAAATAAGTA AATTAAAGCA AGCCAATATG TCTCTCTTCA
TAACATAGGG AAAAATTACT GTTTAGCATA ACAGNGTAAT AGGCAAAGTC TAGCCATACA GCAGCAGTTC ACGGTGTTGT
CAAGTTGGKA CAGGTTCCAT CGAT

SED ID NO:47: (Length of Sequence = 3.75 Micheotides)

GATCTCTTCC AGCGTCAATG TACTGGGACA GCAAACACTC ACATTIGAAG TICCITCTGG CCACCGGCTT CCCAGTACAT TGACGCTGGA AGAGATCATC TCAAATGGTT CTCCAGTGTC AGGCTGGAGA TCTCCAGAAA TGGAGTCTAC TCCTGGGGTG GCTTGTATGG GAGCC

SEO ID NO:48: (Length of Sequence = 270 Nucleotides)

GECIGICAGA GCNACOGGC AGCICAMRCC CACAGOGGCI CCICATCCIC TGIGGIGGCA TCCICATTCC ACICICATCI
GCCACCIKCI CAGGOGGGCC TCIAGCITIC TCATGIACIC TAGCAATTCC TGITTCICCI GCIGIAACIG CICCITITCC
TTCIGGAGCA CAOGCAGGGC TGACOGCAGC TGIGICAGCI TCCGCTTACT TIMIGACAAC TGIACCAGGC TAGAATCCIT
TCIGCCIGGG TCAGCITCAG TCITTGAACA

SEO ID NO:49: (Length of Sequence = 359 Nucleotides)

CCCTGAAGAG TGGGTGGGAC AACCAGATGG GTGTAACCCC TTGTGGGGGA AAAGGAGTGA GTTTACTTGG TAAAATAATA
ATGGTAATGT CAGCAGCGTG GCTGGGGGAC TCAGTATGGT CCCGGGAAAA GAGTTGGGGC AGTGAACTTC CCAGGCCGAC
TGGCCTTGGG CTGGCAGCAG GGAGGCTGCA GGGCGCCTAC CTMCTCTGCC ACGTCCCTGC CTAGGAAACC TATCCCAGGA
CACCCTGCTT TGGCCTGGAT AGCAGCCTAG GGATGAGCAT TTCTTTGAAA GCAATTAGGT TATTCACCTG GTATTAAAAC
TATTTACTGT TAAAAAATCT GTGACTTCAT GGARGTGGG

<u>SEO ID NO:50:</u> (Length of Sequence = 271 Nucleotides)

CCAGGAAGGA CAGGAAGTGT CCTCTAATAC GCATAAGATC CAGTACAGGA GAGATGGGAA GMGAGKCTCC AGGATGAAGG GGAAAARAGG CCGCATGCCA GTCACCTGGC ATCINCCAGA GAGGGYCAGY CINCCCACTG AGACTGGGGC ACGAGTCCCG TCATCACCAT GCCCTCTGAC TGTCGAACTG TCTTTTTACC TGACAAATAC TACACAGGTA TCGMTCGTGG CCATACTCTG CTATCTAAAC CCAGGAACTG ATTAGATTGT T

SEO ID NO:51: (Length of Sequence = 226 Nucleotides)

CTCCAAGCAG TAAAGACTTG CAAAGCATTG CATTTGATT AAACCTTGCT GGGCTGAAGG GCAGGCAGAG CTGTGGTGGA CACTGGCAGG ACGCAGCACC CCCCGACTGG CCCTTGGCAG GCTGCACCGG GCGCATGCGG GTGTGGGCCA GGGTTGCTTT AGGAAGCAGG TGGGAGTCTK NCACGTGCAG KCGGTCCAGG AGKGYACCAK GCCTGGCAGG GCACTG

SEO ID NO:52: (Length of Sequence = 408 Nucleotides)

GETGGGGCAA GETGGGGGTG AAGTGCACTC CTGCTGCATG AGTGGCAGGG CAGGGTGCAC ACACACAGT GGGTMCTGGC
TGGGTGAGGC AAGCAAAAACC TGCCTGCACA TGGCAAAGGG ATGTGGGAAG TATCCATGGG CNCCAGGGGA AGCTGCAGTT
TGGGGAAGGAA ATGGGTGGCA CTGCTGCGTG TCTTGTGGGGG CCACCCCACT GGGGGTCTCC AAGTGGTCAA GTTCCGTCTG
CCAGGTTAGA AGCTATGATG GGGGCTTCTA GGACACTNGA GGCTGACCTG AAAGCAAGGT ACTTTTCACA CTGGGACCCT
GCAAGAGGCC AACAAGATTA AGGGATGCTT CAGGTCAGAC TTGGCCCTCT TCTTATGGGG CAAGACCTTC CCCGCAGAGT
TCAGATCT

SEO ID NO:53: (Length of Sequence = 314 Nucleotides)

TTCTGTGCAG GAGGACCACA TGGCAGTCCA GCAGACTGCA CATTTTTAAA AACTAGGTCT TCCCAGGTAG TTTGAGGAGC ACCAGGGCAC ACTCAGGGAA GGGACATGTC AGTGTCTGAG AGCTCACGGG AGGAAGGTGT AGTGACAACA TGGACCATGG TGGAGTGACT TTAGACGGCT CTTGGGTNAG GAGAATCATC ATGTAACAAA GCATTAAATC ATTTGGAGAA ATTCAGAAAA NTCGTAGATG TACATTCTAG CCCACTTACC AGGCCTACTA AACGTCAATC AGATATATTT CAATTTGAAT TCGG

SEO ID NO:54: (Length of Sequence = 310 Nucleotides)

AAGCCACCGC ACCTGGCCCA TTACATTTAT AATGITATAA GGGGGTTGAG GGGTCGTCCA CTGGAGCAGT GGTTCTCAAA CTCGTGTATG CATAGGAATT ACCTGAAGGG CTTGTTAAAA CACAAACTGC AGGGCCCACC CCCAGAGTTT CTGGTTGGGG AGGTGTGGGC TGGGCTTGAG GATGTGAATC TCTCACAAGC TCCCAGGTGA GGCTGCTGGT CTGTGGACCC ACTTCAAAGA CCCAGTGAAT CAGAAGAGTC AGTGAGACTG GACAAATGAA CGCAAGACAG TCTTCAAAGG AGACCAGAGG

SEO ID NO:55: (Length of Sequence = 252 Nucleotides)

TITITITITI TYCCGGGGAR GICAAACATA CITITICAAC ATAGGATKIC IGACAGGAGG CCCITGGMCA GGGITCCCIG
ACCICIGYIT CAAACCCCAC IGGAAACAGA GCAAAGICAT CAMGAAAACC CAGGACACCA GGGCAGGGGG GCIGCACAAG
GICGGGIAGG TCACAGIGGG CCAGCACACA GIGGCCCCGC CCAGGICCAG CCCAGCCIGG GGGAGGGIGI GAGGGITCCA
KGCAAGCICA IT

SEO ID NO:56: (Length of Sequence = 188 Nucleotides)

GTCAAGTCTA CCATCATTCT AGAAGGAAAA GGCATGGTGG GAATTCAGCA CCTGAACTTG TATTTACACC AGCCTCGGCA
TCTGGCAAGG RAATAGCGAT TGTTCATAGT GATGCAGAGA GAGAACAGGA GGAKGAAGAA CAAATACACA CAAACAACTG
ATCTAGGGAG ACTCCAARGA TCCAACAG

SEO ID NO:57: (Length of Sequence = 304 Mucleotides)

AATCAGCCTG CAAGCAAAAG ATAGGAATAT TCACCTACAG TGGGCACCTC CTTGAAGAAG CTGATAGCTT TTACACAGTA
TTAGATTGAA ATAATGGACA GAAACACATT CTTGTCAAGA AAGGGGGGAGA GAAGTCTGTT TGCAAGTTTC AAAGCAAAAA
GCAAAAAGTGA AATGATTTGA GGATTTCTGT TCTAATTGGA GATGATTCTC TGGTTGTTAG AAATGGCAAA TATTGATGAT
TGTGTGCTAT TGATTGGTGC AGGATACTTG GTATACGAGT AAATACTTGA GACTCGTGTC ACTT

SEO ID NO:58: (Length of Sequence = 261 Nucleotides)

CCAGAAGCIT CITGCCTICT CIGIGCTCTC AGIGGTICCC TICCCTGAAG TGCCTCCCTT CICATTAATT ATAGCCTGTG
TCTGAACATT GIGAGCTATA AGAACCCTCA TATTAATGGT TAAGGGACTG TIGGAAATGA TGIGATTITA TIAAAAATGG
GGTCTTTGTG GAGGACTCAG GAATGGTCAA AATGAGCTTC AGGTATGGGG CITGCTCTRT GCTCCTGATA CCAAGGGTCT
GGCAAGCACA AAGGAACGTG G

SEO ID NO:59: (Length of Sequence = 470 Nucleotides)

AATACGTATT CIGAAGCCAC TATATCTGCA TATGTATCCC AGATTGAAC AATTAAGTAA AAAGATGGTG AATGATGAAA
GCCAGTTTC TGCCGTAGA AGTGAGAGGT GACAGATAAC CAAAGGAAGA AGGCTAGAAT GGATAGAGGA CAGTGCTTAA
GTGTAGTTCC TGTTGCCTTT AGTCTTATAG ACTTCATTTC CAAAGTTTCT TAGCACCCCC CTTCCCCCTT TGGTGAGGTT
GTTTCACATA TTTTCTAGAC AATTAGATTC TTTTGTCAAA GTCTGTGTC CATCCGGAGA GCCTCTGATC TCTTAAATGA
TTTTTTTAAAT TTACATACAT TAAGGTTCAC TCTGCTGTAA AGGTCTGTGG GTTTTAATCC TGTCTCACAG TTTTTGCATA
TGTTGGCCTT CTGCCTGGGA ATACTCTCCC AGATATTCCC CATGACTGGC CCCTTATCTT CAATCAGATC

SEO ID NO:60: (Length of Sequence = 466 Nucleotides)

GEGITTCAAG GGAAGGCAAC IMCAAGITTG TGCAGCIGAA TITCIGTAAA GITAAGACAG ACTCAMCTIC TCATTCAATC TGGGGCAGTG GATAACCITT CIGAATAGAC CCACITGITC ACGGACAGGG ATAGAGGITT GCCITTCTIC TITCCITGAA TITGGAGTGA GCACTAGGGA GGGGAAGTGC ATGGGTGACA TGAAGAAGGT GAAGATGTAG TAAAAGCATC ATCCAGGTAC ACATTAACGC TGCTGCAGAA TITTCACAAT ACACTGAGC GAGTCTGTAO TGCCAAAAAGC AATTACTGAG CACAAAAGCC

ASTCCTCAAG GGCTGATTCC ACCTTCCCTG TCCAGGGACT TTCTCAGCAA ACTTTGTTCA TGAGCAGTTG TTCGCTTTGA TGGTCTTAGC CAGTTTTTGG TGCAGGGGTG TTCCTCTGGT ACTAGGGCTA GGGCAGCTGT TTAAAG

SEO ID NO:61: (Length of Sequence = 491 Nucleotides)

GACACCCCTC CTGCCATGAA GAATGCCACT AGCTCTAAGC AGCTCCCACT GGAACCAGAG AGCCCCTCAG GGCAGGTCGG
GCCTAGGCCA GCCCCCCCC AGGAAGAGTC CCCTTCCTCT GAAGCAAAGA GCAGAGGACC CACCCCACCA GCCATGGGCC
CACGGGATGC CAGACCTCCT CGAAGGAGCA GCCAGCCATC TCCAACAGCA GTGCCAGCCT CCGACAGCCC TCCCACCAAG
CAAGAGGTGA AGAAGGCAGG AGAGGAGACA AAGCTGGCAA AGGACGGGCG AGAAGAGGCT GCCAAGTTACC TGGCGGCCAA
GGAAGGCAGT GTGGCTGGGA AGGAGGAGAA AGGCCAAGGT GCTGCGGGAG GAAGCAAGCT CCATGGAGCG CCGCTGCCGG
TTTTAGGGAG CAAACGTCTT AAAGCCGAGC AACGCCGTTC AAGCCTTGGA GGAACGGCTA GCCGAAGAAG TTTGTGGAAA
ACAAGGGGGCG T

SEO ID NO:62: (Length of Sequence = 478 Nucleotides)

ATCATTGAGT ACGCAGAGCT CAAAACAGAC GTGTTCCAGA GCCTGAGGGA AGTGGGCAAT GCATCCTCTT CTGCCTCCTC
ATAGAGCAAG CTCTGTCTCA GGAGGAGGTC TGCGATTTGC TCCATGCCGA CCCTTCCAAA ACATCTTGCC TAGAGTCTAC
ATCAAAGAGG GGGAGCGCCT GGAGGTCCGG ATGAAACGTC TGGAAGCCAA GTATGCCCCG CTCCACCTGG TCCCTCTGAT
CGAGGGGCTG GGGACCCTCA GCAAATCGCC ATTGCTCGCG AGGGTGACCT CCTGACCAAG GAGCGGCTGT CTGTGGCTGT
CCATGTTCGA GGTCATCCTG ACCCGATTCG GAGCTACCTT CAGGACCCAT CTGGCGGGGC CACCGCCACC AATGCGTATG
ACGTCGATGA GTTTTTGAGT TCACTGCTGT GAGCGCATGA GTCGTGTACT GAATCCTGTG GACAACGGTT AAGTTACA

SEQ ID NO:63: (Length of Sequence = 183 Nucleotides)

CCTGGAAAGT GGGGTGGGC CAGGGGGCCA GGCCCAGCAT GCACCCCCAT TTTTTTTTGGGG GCTGATCCCT GCCCCAGCTC
TGCTGATACC CGGGGCCACA GCGTCAGGCC GTTGGGGGTG GAGKTAGAGG TGGGAGAGCA GGGGAGAGAG CCTKAGGAGC
CACAATTGGG CAGACAGAAG CGG

SEO ID NO:64: (Length of Sequence = 316 Mucleotides)

GGATATIGCA CCITACAGAC TIAGGGAGCC TITACCAGAG ACGCCTAAAA CGCCCCAGGI TCAGCCATIG TGCTGAATAG
AGTGGAATAT AGAACCAGGG ACAGAGIATI TCATITAACG TIGATATATA CITGCTAAGG AAACACTAAC AATACTGTAA
CITTGTTAAA GGACATAGIA TIGAAATGGG AAATAGAGGI CAGGCTCACA TCATCTTAGI TTAATGCTGG GCAACTTTTT
CTGATTTCTG TAGTTCCCTG GAAAATGTGI CCTTCGTACC CATAAAGTGG TACAAATGCA TTTTGTAACCA TTTTTTG

SEQ ID NO:66: (Length of Sequence = 411 Nucleotides)

ATCTGGTCTA GAGAGGGGAC TCCAAGCTCT CTTGCTGGCT CCCAGCTGTG GGAATCCTT AGGCTTGTTC TCAACCTACA
CGTTAAAAAT GCTTCTTGGT GTGTTTGGGG AGGGGGAGAG GGAAACTGAG CTCTCTCTTG ACCTCCTCCA ACACCCTTGA
CTTGCTTACC CAGCCATTTT CAGTAGCTAC ACGGGTGGTC ACAGAACACT GGGCGGCACT CGGCACACAA CACAGAACCG
GGGCAGTCCA TGCAGGTGCG GGAACACATG TCGGACCCAG GGAGCAAGGA ACACGCCACC CCGAGGAACA TGCAAACGGA
GGAAGGATTC CCTTCAGATT CCAAGGATGC CACAACCCCG ACGGGCGGCT TAGGGAAGGCA CCGATTATCT AAGGAAAAAG
GCCACTGTTT G

SEO ID NO:67: (Length of Sequence = 413 Nucleotides)

CIGCICCITA IGITITIATI ICCAAAGITI AGAATIICII IGCIICATAG TATIATIITA ITITIACIAAA ITACAGAGIA AGAAAAGCII ITCAITITAI CIGAITITAI ICIIAGAACA AAAATATIAC GAICIICIAI ATTTIIGICI ITITIGCCAAA AAGIGIAGGC AATTITACAT CATCITITIT CCCAATCAGT TIGIGATCCA ACTATAAAAA GGAGACATAG AATACIGAAT AAATGAAACA GAAACTCCAA GGCCAAGAAG TGICCATCTT GAAAGAGIGT TAGIGGCAAG ATATGIGACT GCAGACTAGA TGTAGACAAA CCTGAGAAAA ACCAAGCATG GGGGAAAAGGA TYCCTATTTT AATAAATGGT GCTGGGGAAA ACTGGCTAGC CATATGIACT TTA

SEO ID NO:68: (Length of Sequence = 372 Nucleotides)

GCACGGITAA AAGACCAACG TGTGTGGNTC AAATATAAAG GCCACACCTT TCAGACCGAA CCTACTCAAA GATCCTTTAC

TTTGCAATAA TTTGAACTGG AGAACCAAAG ACGGGAGACG AATGAAAGCA AAGATGCTCA AAGAACCAAA GGAAAGACCT

GAAGGAATCC ACCTGCATAG GCCACGCGTT CCACTCTGGG TCAAATGCTT CCACGATGCA GAAACCTTTT TTTAAAAAAAG

TGCAAGTCTA ATTACCTACC AAGGGTAATA AAAAGCACAG CACAGGAATG ATTACAGCTG ATGGTCAAAA AACAAACCAA

AACCATTAAA AAAACAATCA GGCAGAAAAC AGGAGTTAAA TGTTTACATA TG

SEO ID NO:69: (Length of Sequence = 389 Nucleotides)

TCTAGAACCT GGACCCACCC AGCGCGTCCT TTCTTATCCC CGAGTGGATG GATGGATGGA TGGATGGTAG GGATGTTAAT

AATTTTAGTG GAACAAAGCC TGTGAAATGA TTGTACATAG TGTTAATTTA TTGTAACGAA TGGCTAGTTT TTATTCTCGT

CAAGGCACAA AACCAGTTCA TGCTTAACCN TTTTTTCCTT TCCTTTCTTT GCTTTTCTTT CTCTCCTCTC ATACTTTCTC

TTCTCTCTCT TTTAATTTTC TTGTGAGATA ATATTCTAAG AGGCTCTAGA AACATGAAAT ACTCAGTAGT GGATGGGTTT

CCCACTTCTC CTCAATCCGT TGCATGAAAT AATTACTATG GTGCCCTAAT GCACACAAAT AGCTAAGGG

SEO ID NO:71: (Length of Sequence = 329 Nucleotides)

GAAAAAATGG GAGGGCAGCC ATGIATTAAT TGTACATCCA AGGAAACTGI GCCCCAGGGG TCTTGTGTGI ATTICTGAGA
AGAGGGGTGA GAAAAGGCAC TGTGTCAACA TTTGCTTCTG CCTGAACGTG CACCTCCCAG TGCTCCTCCA TCAATTAGGA
GAACTGTCTT GAAGAATGCT GCCTCAGCTT CTGAAGAGAA GACCCCAGGA CATGCATTAA TGAGAGGAGG GGAGTCACAG
CTGCAGAAGA ATAAAGCTCT CTGAGGGAGC CTGGCAGCCC CCAGTGGAGG CCTGGAGCTT GTTGACCANN GCAGCAGGAG
ACCCCTGCT

SEQ ID NO:72: (Length of Sequence = 418 Mucleotides)

CIGAGITGC TGAGGICATT CACATGCITC AGCACCAGIT CCCATCIGIT CAGGCAAATG CAGCGGCCTA CCTGCAGCAC

CIGIGCITTG GIGACAACAA AGIGAAGATG GAGGIGIGIA GGITAGGGGG AATCAAGCAT CIGGITGACC TICIGGACCA

CAGAGITTTG GAAGITCAGA AGAATGCITG TGGIGCCCIT CGAAACCICG TITTTGGCAA GICTACAGAT GAAAATAAAA

TAGCAATGAA GAATGITGGI GGGGATACCI GCCTIGITGC GGCIGITGAG AAAAATCTAT TIGATGCAGA AGTAAGGGAG

CITGITACAG GAGICTITGG AATTATCCCI CATGIGATGC CIGTAAAAAT GACATTCATT CGAGATGCIC TCTCAACCIT

AACAAACACI GIGATTGT

SEO ID NO:73: (Length of Sequence = 336 Nucleotides)

CTGAATTITT ATATGCTICA CITAGGCTIT CATTIGAGTA GACTCTAAAA ATTCTGCCTT GCTTAAGINC TAACACTGCC

TCTCAGATTT CAGTTTTGGA CATTGCACAA CTAAGACCTT TTAAACGCAT TINCITGCTA ACTCGGAAGA CACATAGTCT

GCAGCAAGAC ATTCCTATAT TGAAGAAATG AGAGAAAATT TTATGCTGCA TCAGGTGGAG AGCAAGGCTC AACGGTGGTT

GCATTAGTTC CCTCGGAAGT ATTGAAAAAN CTTTGAAATG GGAAGGAAAA TTTTTTGCAC CTAATGTTCC TGAGGTACCC

AGAATGTCTG GCGGTT

SEO ID NO:74: (Length of Sequence = 402 Nucleotides)

GIGCTCAGTA AATACAAATT GGATGGACTA GAGAGATAGC CCCGAGGACA CTGCCAAATA AATAACAAAT TGTGCAAGCA GCAGGCCGCT GTAATTAGAC CAAGGAGGAC AGTCAGTTAT TAATATCAGA CACGTGGCAG GGTTAACAGC CACTGAGGGT GGGTACAATG AAGAGAGTCA CTTTCTGCAC CCTCAGGGAC TTCCCTTGTG ATGGCCTTCT AAAGAGGGCT GAACAGCACC AAGTGCCCTC GCTGCCTGTG GTTCCTGCTG CCCTCCGCGT GCCTTGGGTG CCCCACAACT AGGGCCCTGG GTCCCTCCCA TGTCCCCCTC CCTCCTACAA CCCCTCAGCC CCTTATCTGG CCAGCCATTA TGATGCCTAT CAGTATGAGG CCAGATGAGA GT

SEO ID NO:75: (Length of Sequence = 454 Nucleotides)

GRACCCOGGG CCCGCGATGT GGCCCAGTAC CTGCTCTCAG ACAGCCTCTT CGTGTGGGTT CTAGTAAATA CCGCTTGCTG
TGTTTTGATG TTGGTGGCTA AGCTCATCCA GTGTATTGTG TTTGGCCCTC TTCGAGTGAG TGAGAGACAG CATCTCAAAG
ACANATTTTG GAATTTTATT TTCTACAAGT TCATTTTCAT CTTTGGTGTG CTGAATGTCC AGACAGTGGA AGAGGTGGTC
ATGTGGTGCC TCTGGTTTGC CGGACTTGTC TTTCTGCACC TGATGGTTCA GCTCTGCAAG GNTCGATTTG AATATCTTTC
CTTCTCGCCC ACCACGGCGA TGAGCAGCCA CGGGTCGAGT CCTGTCCCTG TTTGGTTGCC ATGCTGCTTT TCCTGCTGTG
GACTTGCGGC CGTTTGCTCA TTACCGGGTA CACCACGGAA TGCACACCTG GCTT

SEO ID NO:76: (Length of Sequence = 313 Nucleotides)

GCTTTGATAG CIAGITGICT AAAAGIGCIG MITATTAAAT AATCCACCIN TITCCCCACT TAAAACATCC CICTIACCAT
ATACTAAATT CCNGTAGCCC TGGGTCTGIT TCTGGACTCT CCCGTCTGIC TGACCCCCTC CAGGTCACAC TGAGTGAGGT
AATGGTGGCG TGAGAATCCT CTGGGAATCT GGCAGGNTCA CCCCNGAGCA GTCCACCCCN CAACTCATTA NCATCGTTCA
GAGTGGNCTG AGTGNTCTCA CACATTCACT CTGCCAAATG CACTTTAGGA ACTGTCAAAT TCCAAAGTTT CAA

SEO ID NO:77: (Length of Sequence = 446 Nucleotides)

CTCAGCOGTA GCCCTAAGTC GITTITCCAA TITAGGAAGC TCACAACGCA GATCTGCATT GTCACGTACC AGCTGTTTGT
GAACCTTTGT AAGCTGTTCC AGGTTGTTCT CAAGAAAGGA AATCTTCTGC TTTTGGGAGT GAATCCCCCC ACTGTCTTCG
GGCTCCATTT CTGCACTTTT CTTGACTCGA GTCGTGACGT CTTGAACGAA CAGCTTGCGA AGGTTGTGGC SGGTCTGGAG
TTCCCGGGCA ACTGTCTCCT CCAGACCCTT GAGGTCCTGC TTGTGACTGC TCAATGTCGC TCGTACAGAA ATGTCAGCTC
CTGCAGCTTT GGTGCTCTTC TCGTGGTTCT TCGCTCTTTC AGCTTCTCG TAGTCAAGCC TGAAGGCTTC TCTAAGCTCT
AACTGGAGCT TCTGATTTAA GGTCTTTTGA GCTCATCAAA TGGTCT

SEO ID NO:78: (Length of Sequence = 296 Nucleotides)

ASCOGGIGGE GEAATIGGAGA GAATIGTIGEET GAGACAGAGE GEOTIGGETIG GGAGGAGGEA GEOCTIGGGING COGAGCITETIG TGAGGAGACE CETTIGGAATIG ACAACTEATIC CATEGTIGGTIG CGCATEGGGG CEGAGGAGGG GEAGAAATAC GAGGAGGAGA TCCGCCGTET CITATAAGCAG CITINACGACA AGGATGATGA AATCAACCAA CAAAGCCAAC TCATAGAGNA GETCAAGCAG CAAATINETIGG ACCAGGAAGA GETGETGGTIG TNEACCOGAG GAGACAACGA GAAGGT

SEO ID NO:79: (Length of Sequence = 285 Nucleotides)

CCTTTCCTGC CTGGGAAGTG ATGACTCGCA GGTCGGGCTT GCGGCTGGGG GCTCCAAGCT GGGTGCTGTG GGTAGGTGGG GGCGGAGACT TGGCAGGGAT GACCTTGTTT AGGCTGTTGC CATTGGCCAC AGGGAGGAGG CCAGGGGAAG CCCGAGCACT GACGTAGCCA TTCCCAACAG GGCTGGGGCA GGCTCCGTTA GCACTGTTCA GGTCACCNCC CAGCATGGCC CCCCCACTACGCTG GGGCAGGCCA GGAGACACAC TGTTCCTCTG TAGTG

SEO ID NO:80: (Length of Sequence = 402 Nucleotides)

ATGATTICTI GCCTGINATA ACCIATGCAC TCACAAAGAT GAACICICTG AGAGGGATGA GCAAGAGCTI CAGGAAATCC GAAAGIATIT CICCITICCI GIATICITIT TCAAAGIGCC GAAACIGGGC TCGGAGATAA TAGACICCIC AACCAGGAGA ATGAGGAGGC AAAGATCACC GCTTIATCGC CAGCTAATTG ACCTGGGCTA TCTGAGCAGC AGICACIGGA ACTGIGGGGC TCCTGGCCAG GGATACITAAA GCTCAGAGCA TGTTGGTGGA ACAGAGTGAA AAGCTGAGAC ACTTGAGCAC ATTTTCTCAC CAGGTGTTAC AGACTCGCCT GGTNGATGCA GCCAAGGCCC TGAAACCTGG TGCACTGCCA CTGCCTTGAC ATCTTTTATT AA

SEO ID NO:81: (Length of Sequence = 246 Nucleotides)

CATTITIAAT AGAGACGGG TITAACCATG TIGGCCAGGC TGGICITGAA CICITGATCI CAGGIAATCC ACCCACTATG
GCCTCCCAAA GTGCTGGGGT TACAGGITTG AGCCTCTGIN CCCGGCCCGG CCAAAGACTG CCTATTCTAA ACGTTGCTGA
GGACGTGGAN CAATCACAGC TCTCCINICT TTCCAGTGGG AGITTAACAT GGCACAACCG CCTGAAAACC GTTTGCNGAT
TTCTGT

SEO ID NO:82: (Length of Sequence =394 Nucleotides)

GGGAACCCTC AGCAAAATAT AATGGTACCG CTATTATCAG CCTTGTTCGA GGCCCAGGGA TITTGGGGGA GGTCACAGTG
TTCTGGAGGA TATTCCCTCC TTCCGTGGGG GAATTTGCTG AAACATCAGG NAAACTGACA ATGCGAGACG AACAGTCTGC
AGTCATTGTA GTAATACAGG CTTTGAACGA TGACATTCCC GAGGAAAAAA GCTTCTATGA GTTTCAGCTC ACTGCAGTCA
GTNAGGGAGG AGTTCTGAGT GAATCCAGCA GCACTNCCAA CATCACGGTG GTGGCCAGCG ACTCTCCCTA TGGCCGATTT
GCCTTTTNAC ATGAGGCAAC TTCGAGTGTC AGAAGCACAG AGGGNTAACA TCACAATCAT CCGTTCCAGT GGAG

SEO ID NO:83: (Length of Sequence = 308 Nucleotides)

SEO ID NO:84: (Length of Sequence = 313 Nucleotides)

CTTTAACTTA ATGGCAATTA AAACTCACTG GCAAAAAAA TCACTAGAGA TGTCAGTCCA TTATCTTACC AAATAGTGTA
TTTTTACCAT CTTTTACCTA CACCCTTGAG TAAGGTGGAA TAGGTTAAAG TTACTGGCAT AATAACACTT CATTGAATTC
ATGATAGTAT TTAACATGTT AAAACTGTTT AGTTGAAAAG TTCACATGCA ATTTATAATT TAAAAATATG CTACATATAT
TTCATAAAAAW TACAATAGGT CATACTARAC TTTGACTAAA ATTAAGAATG TKTTTCTKTC ATAATAATGC AGG

SEO ID NO:85: (Length of Sequence = 303 Nucleotides)

TECTICOGITT ATTECTICIAT TCAATGACCA CGAGCGAATT ATAAAAAGAC ACCAAATGTC TCTGTCTGCC GTGGGATAAA
TATTTAAAGT CAGCAATAAA GTCACGTGGC TCCAAGRTAA TACATGTTGC CAAAGAGTCA TGCATGCCCT CCTGATGGGC
TCTCAACACA CGTATGGWCA TGGGAACACA CGCAGAGCAA CACGCAGTAT GAACTTSTGG GAAGGCTTTA CCACAGTGAC
ACAGTAAAAT GTCTCACGTA GATCTGRGCT GAGTCCCCCAC CCAAACCTTG AGCTCCCCTT CCA

SEO ID NO:86: (Length of Sequence = 380 Nucleotides)

SEO ID NO:87: (Length of Sequence = 280 Nucleotides)

GCCTTTGCTG CITATTCGCA TCGATGGTGA AAGAGATGTC AGGAGCACTT CTCTGCTGAG GTGGCTGAGA CGAAGAGGAC
TCTGCTGCCA GCCTTGCCGC ATACCTGGCA ATTAGCCTGT GTTCTTCATC AAGCCGGTTT GAACTCTCAA GCATGCTCCT
GGTAATAAAA GGACTTCCTG AGGAGGGAAC AGAGTGNGAG AACAGGGTGT CGTTCATGCT GGTTACAGGT CTGGGAGGCA
CGATGTGAGC CAAGTTGAGT GGCTTCTCAG GCTGATCTGG

SEO ID NO:88: (Length of Sequence = 446 Nucleotides)

CCTGCGTCTC TTACACCCYC TCCCACCCGA GGCTCCCCAG AGATAGCAGA GAATTCGAAG AGGTCGCCGG GGACTGGAAA
GAAGTCCCNG NAGGCCGCCT TCGCAGTCTA CACCCCAGCC TGCTTCCCAG CCTACAYCCA GACCCAGCTC AGACCTTCGT
GACCACCCCA TCCCTTTCTC CGGCTGGCTG GGTCGGGGGC ATCCCTCTCT GTCGCTGGCT TCCAGAGGCA GGACAGGCCT
CCTGGTAAGC CCGCAAAGTT GCTGACCTCC TGACTTCGTC TGCCTTTTAT TAATATCTGT ATTGCTGATA ACCGTGCTCT
TGACTATGTG TCCCAGGTCA TGTCCCAGGT CATGGAGAAG CCCGTGCCAC AGTGACCCTT CCCATACTTC TGGGGGGGCT
GCTCTCCATC TGGATCGTAG GAGGATATAG GTGTGTTCTG GACCAT

SEO ID NO:89: (Length of Sequence = 384 Nucleotides)

GICCCTTCTG GGGACTCTRT TTCCCCATTT ATTGCTGCTG TGTCCCTNAC CAGTTCCTTG CAGGATTCCC TCCTTTTAAA
ATGCCCTTAA ATCTAGCTTT GCCTTGGAGA CCCCAGTGGG TGCTGCTCCT GCCGTTTTCT TCCTGCCAAG CCTGAATCAA
TGTTTCATCT CCAACCCTCT GCCAGTTTGG CCCCTCAAAG CTTGGTGGCT CAAGACTGTW AGCCTGGCAG AGCCGCCENGG
TGGAGGGAGA AGCTCTTGGA GCAGGCAGGA TGCCACCGCT GCTTCAGCTT GCCTCCTCGC CCAGCTACCC TTTGGCCCCCA
TTGGGCCCCTC GIMTGCCTCT CCAGGATTGT ATGTTTCAAG NCTTGTCCTG TGTTCCTTTG TCTG

SEO ID NO:90: (Length of Sequence = 344 Nucleotides)

TCAAGCTGGA AAGGGCTACT ACCTCATGCT GGAAAGGGCT ACTACCTCAA GCTGGAAAGG GCTACTACCT CAAGCTGGAA
AGGGCTACTA CCTCAAGCTG GAAAGGGCTA CTACCTCAAG CTGGAAAGAG CTACTACCTC AAGCTGGAAA GGGCTACTAC
CTCATGCTGG AAAGGGCTAC TACCTCAAGC TGGAAAGAGC TACTACCTCA AGCTGGAAAG GGCTACTACC TCAAGCTGGA
AAGGGCTACT ACCTCAAGCT GGAAAGAGCT ACTACCTCCA AGCTGGAAAG GGCTACTACC TCATGCTGGG AAAGGGCTAC
TACCTCAAGC TGGACAGGGC TACT

SEO ID NO:91: (Length of Sequence = 364 Nucleotides)

GOCCCAGGGT GAGGGTATG AGGGGTCAGG GGTCAGGTTC CCCAGGACCC TAGTCCTTGT CCCCTTCCCCT GGTGCTAAAT
AAAAGTGAAT AAATACTAAA TAAATACAAC TGGGGCCCAG GCCCTCCCTG CCTTCCCCCT CCCTCCTGTG ACCCGCAGCA
GAGGGGGCAG TTTAGATGGA GGGCTGTCTG TCAGCCCCTT CCATCCACTA ACCCATCACT GCCTCCCAGG GCAGGAAACC
AGGGCAGGGC CAGCCTGCGC ATTAGGGCAG AGAGGAGGGG CAGGTCTCAC GCCCACAGCC CCTTCCCACT TGAGTCTTAG
CATGAGGCAG CAACAGAAGC TCTCTCTTCC TCCCAGCTAA GTCC

SEO ID NO:92: (Length of Sequence = 218 Nucleotides)

ATTTAATAGA AAATTAAAAT AATAAATAAT ATGAAAATAGA TIGATAACGC TGAGCTGGGC AGGCCCAGGC CAGTCTAGTA
CAAAGTTAAG GAGGTAGGGA GGATGGTGGG GAGGAGGGGG CAGACTACCC TGCAGGACGC GGGAGGCTGC TCAGACTGTG
GTGATGTCAG GAAGGGCCGC ACACTTTGGC ATGGACGATG CACTAAAAAA AGAGAAAG

SEO ID NO:93: (Length of Sequence = 364 Nucleotides)

GCTTTCAAGG GAACAAGAA TOGGCCTGGC AGTGCCCTGG AGAAGGAGGT GGAGAGCATG GGGGCCCATC TTAATGCCTA
CAGNACCCGG GAGCACACAG CTTACTACAT CAAGGCGCTG TCCAAGGATC TGCCGAAAGC TGTGGAGCTC CTGGGTGACA
TTGTGCAGAA CTGTAGTCTG GAAGACTCAC AGATTGAGAA GGAACGTGAT GTGATCCTGC GGGAGATGCA GGAGAATGAT
GCATCTATGC GAGATGTGGT CTTTAACTAC CTGCATGCCA CAGCATTCCA GGGGCACACC TCTAGCCCAG GCTTTGGAGG
GGCCCAGTGA GAATGTCAGG AAGCTGTCTC GTGCAGACTT GACC

SEO ID NO: 94: (Length of Sequence = 423 Nucleotides)

CTICATACTA GAACTGICIG CCATCITAT TICITIGITI TCAGGAAAAT TGGAGAGAAA AGTATITCIT TITTAAAAAT GATTATTATA CITTAAGITC TGGAGACAT GIGCAGAACG TGCACGITTG TTACATAAGI ATACACGIGC CATCGIGGIT TGCIGCACCC ATCAACCCGT CATCIACATT AGGIATITCI CCIAATGCIA TCCCICCCCT AGCCCCCCAC CCICCAACAG GCICCAGIGIT GIGATGITCC CCTCCCTGIG TCCATGIGIT CICATIGITC AACTCCCACT TATGAGIGAG GGACATGCAG TGTITGATTT TCIGITCCIG TGTIACTITG CTGAGAATGA TGGCTTCCAG ATTCATCCAT GICCTTGCAA AGGCATGAAC TCATCCTTTT TATGGCTGCA TAG

SEO ID NO:95: (Length of Sequence = 405 Nucleotides)

AACAGCCCCC GATCIGCATA GCCIGIGAAA GCCCACGGGG ACATCAGTAA CCTTCIGCAG CCACCATCCA ATGCCATTAC TGINAAGTGA GACIIGGCCA CIGIAGCCIG GGCCIGCIGC AGGAGCTCIT CAGAAAGGCA CATGAGGACC ACGGITTGCC TCAGIITICIG GIAAAACACA AGGICIGGAG TGCCCCIGCA AAGGGTATTG ATGGACTICC TGCCAGTGAC AGAGCATGTC TATTGCAAAC AATTCICTCA GIIACGITCA GCACITAAGA ACGGCTAATG NCAATAGGAT CITTAGCAAC TITTTCACAT CATAGAAGGT GCAATCGCIC ACTTGGGAAC ACTACTGAGA GIGACTTCTC TITTAAAATT GAGTAGCAGA TGAAAAATTA AAATT

SEO ID NO:96: (Length of Sequence = 173 Nucleotides)

GAAGACAATA CTGATGCCAG CTCTTTGTAA TTGTGAAATC TGTACCCAAA CCTCTGGATT AGAATCTCCA GTTGTCTACT
GTAAATACTG GAATTACAGC AAAGGATATG GGGACTGGGC TGCTTTTCTG TATTGTACAA GCACTATTCT AGATATTAAA
GAAATTTAAC CGC

SEO ID NO:97: (Length of Sequence = 337 Nucleotides)

ATGGCGCCCT ACAGCCTACT GGTGACTCGG CTGCAGAAAG CTCTGGGTGT GCGGCAGTAC CATGTGGCCT CAGTCCTGTG
CCAACGGGCC AAGGTGGCGA TGAGCCANIT TGAGCCCAAC GAGTACATCC ATTATGACCT GCTAGAGAAG AACATTAACA
TTGTTCGCAA ACGACTGAAC CGGCCGCTGA CCCTCTCGGA GAAGNITGTG TATGGACACC TGGATGACCC CGCCAGCCAG
GAAATTGAGC GAGGCAAGTC GTACCTGCGG CTGCGGNCGG ACCGTGTGGC CATGCAGGAT GCGACGGSCC AGATTGGCCA
TGCTCCAGTT CATCAAG

SEO ID NO:98: (Length of Sequence = 212 Nucleotides)

TGAAGCCCAA GNAGINIGIG AAGACAGAGA ATGACCACAT CAACCIGAAG GIGGCCGGGC AGGACGGCIC CGIGGIGCAG
TTCAAGATCA AGAGGCACAC GCCGCIGAGC AAGCIGATGA AGGCCTACIG AGAGAGGCAG GGCITKICAA KGAGGCAGAT
CAGATTCAGK TICGACGGGC AGCCAATCAG TGAAACTGAC ACTCCAGCAC AG

SEO ID NO:99: (Length of Sequence =: 26 Nucleotides)

CCTITIAATA ATAATTCTGC TGTCTGCTGT GTACTAGAAC CCATGCCTAC TGCTTGGGGT ATAATGTAGT AAATGTAGTA
AAAACAATAT CCGCCGGGGG CGGTGGCTCA CGCCTGTAAT TCCAGCACTT TGGGAGGCCCA AGGAGGGCGG ATCACGAGGT
CAGGAGGGG AGACCATCCT GGCTAACATG GTGAAACCCC GTCTCTACTA AAAATACCAA AAATTAGCCA GGCGTGGTGA
TGGACGCCTG TAGTCCCAGC TACTC

SEO ID NO:100: (Length of Sequence = 333 Mucleotides)

AAAATGCTCA CAGTGGTCTT CTCTGGCCGG TGAGCCTACA GCTGATCTTG TCAGAGACAA ACGTTAGTTT TACTGAGTCA

CCCAGAGCCC TGTGCTGGTG CCTGAGGGTT TGTTCCATGG GACAGTCTCC ACAATTCCTC TGGGGAAGGG CCACAAATCC

CACAGTGTGT CCCAAGAGGG CTGGAGTAGG CGGAGTCCCC ACCAGCTGTG GCATGACCAG CCATCTCTCT CAAAACAATT

GTTAACAAGC CTTCTGCAAG TTAAGGTTCC ACATGGTAGC CGTGGTACAG AGGCATTTCT CTAGGGTGGG AGAGGCTTGT

GCTCTACACC AGG

SEO ID NO:101: (Length of Sequence = 156 Nucleotides)

CICIGACITT CCIGICGNIT TAGAGCCAAG CTCAAGGIAG TAGGCCGIAG GCNCITATIT TATITICAAA CCCCCATCCT

CAGAGCGCAG ATACATGCAG AGGCTTCTGC CAGGCTACCA CGGGGCCTTA GTGGGAACAG GTTGAGACCA GCACTT

SEO ID NO:102: (Length of Sequence = 331 Nucleotides)

CGAAAAGGGG NNNTATGGCC ATCTITTATC AGAAAAAGTG ACAAAACGGG AATTTAAAAA ATGAATTTC NNTCTGACTT

TATTINNAAA TACACTTTCT TITTINNAAA ACCAATACAC TITCTTTGAG GATGACAGTA TTAGGAAATC CAATINNACA

AAAAATACTA CATCTAGTCT GGGGTAGATA TATTTATTTT TGGTAACATA CATTAAGTGG CACTAATTAC ACAGTAACTA

TAAGGTAACT AACATGAAAC CACAGAACTG TAACTCTGCC ACAGCTGCAT GAACTTGGGC TITTCTGGTT GAGCCCATTT

TCAAAAAAACT G

SEO ID NO:103: (Length of Sequence = 316 Nucleotides)

AGCCACTGCG CCCCACCCCA TITCGGTGIN ANCTCAGCTC ACTTCAACCT ACCCCTCCCA AGTTCAAGTG ATTCTCCTAC

CTCAGCCTCT TEAGTAGCTG GGATTACAGG GGTCTGCCAC CACGCTGGGT GATTTTCCTA TITTTAGTTG ACACTGCATT

TCACCAGGTT GGCCAGGCTG GTGTTGAACT CCTGACCTCA GCTGATCCAC CCGTCTCGGG GTCCCAAAGT GTTGGGATTA

CAGGTGTGAG CCACCACACC AGGCCCATAT TITCTTTTAG ACATGCAGGC AATGTTGGTG GGTTTGTCTG TTAAGA

SEO ID NO:104: (Length of Sequence = 308 Nucleotides)

GITTITICCIG CATCIATICA GATAATCATG TGGITTITGI ATTIGGCTCI GITTATATGC TGGATTACAT TTATTGATTT

GOGIATATIG AACCAGCCIT GCATCCCAGG GATGANGCCC ACINGATCAT GGICGATAAG CITTITIGATG TGCTGCIGGA

TTCGITTIGC CAGIATTITA TTGAGGATTT TTGCATCAAT GITCATCAAG GATATTGGNC TAAAAGIGIG CIGIATTCAG

GAAACCCATC TCACGIGCAG AGACACACAT AGGCTCAAAA TAAAGGGATG GAGGAAGATC TACCAAGC

SEO ID NO:105: (Length of Sequence = 355 Nucleotides)

GGCCTTCCTC AATATGIAGG CGCCACTTTT TCTCCCTGTG CCCTCACCTG GTCACCCCTC TGTGCGCGAN ATCCCACTGT

CTCTCTGGGT GTCCAAACTT CCTCTTCTTA GGAGGACACA AGTCAGATTG GATTAGGGCC CACCCCAATG GCCTCATTTT

AACTTAATCA CCTCCCTTTT GTTTGGGCTT TTTAACTTAA TCACCTCTTT AAAGACCTTA TCTCCAACTA AGGTTTCATT

CTGAGGTATA CTGGAAGGTTA AGACTTTAAA ACACGAATTT GGAGGGGACG TAATTCAGCC CATAACAATA ACAATAACGA

CATCTTACAA CTTACTGCCA CCACCAAGCT TGCTG

SEO ID NO:106: (Length of Sequence = 355 Nucleotides)

GGATGAGGTC GCCGGGATCG TGGCTGCACG CCACTGCAAG ACCAACATCG TCACAGCTTC CGTGGACGCC ATTAATTTTC
ATGACAAGAT CAGAAAAGGC TGCGTCATCA CCATCTCGGG ACGCATGACC TTCACGAGCA ATAAGTCCAT GGAGATCGAG
GTGTTGGTGG ACGCCGACCC TGTTGTGGAC AGCTCTCAGA AGCGTTACCG GGCCGCCAGT GCCTTCTTCA CCTACGTGTC
GCTGAGCCAG GAAGGCAGGT CGCTGCCTGT GCCCCAGVTG GTGCCCGAGA CCGAGGACGA GAAGAAGCGC TTTTAGGAAG
GCAAAAGGGCG GTACCTGCAG ATGAAGGCGA GGGAC

SEO ID NO:107: (Length of Sequence = 273 Nucleotides)

GIGICICITI TAAAGAAAAC ATACITTATI TIGGICIAAA TIGIGAAAAT ACCCAAAACA TIIGATAGAA ATIGAACTCI GICAACAGIG TIATTIATAC TAAGATCAGG ACAGIICCII GAGATCATAC TGITTIATTA CIAAGIITGG CCITIGITIT ACAAATGIAA TGITCATATI TATTIGAAIT TIAAGATTGG TTAAATGITA ATGAAAAGCA ATCCAATTGI TANTITITAG TAGGCCTTI TCTCIGIATG CCITAATTIT AIT

SEQ ID NO:108: (Length of Sequence = 359 Nucleotides)

ATTITATITC CITACATCEA AGAAAATGIT AAAGAGTATC TECAGACACA TIGGGAAGAA GAGGAGTGCC AGCAGGATGI
CAGTCITITG AGGAAACAGG CIGAAGAGGA CGCCCACCTG GATGGGGCTG TICCTATCCC TGCAGCATCI GGGAATGGAG
TGGATGATCI GCAACAGATG ATCCAGGCCG TGGTAGATAA TGTGTGCTGG CAGATGTCCC TGGATCGAAA GACCACTGCA
CTCAAACAGC TGCAGGCCCA CATGTGGAGG GCGCATTCA CAGCTGGGCG CATGAAAGCA GAGTTCTTTG CAGATGTAGT
TCCAGCAGTC AGGTAAGTGG AGAGAGGCCG GGATGAAGG

SEO ID NO:109: (Length of Sequence = 360 Nucleotides)

TITIATNAAAG CAGITAAACT TAGCATTAAA TAACACTCTT TAAATGGTAC ACCTATGAAG CAAGAGTTAA ATATAAACCC
AGTCTAATCC TGTACACTTG TGATTAATTG TGACAATCTT AAGTTGCTCA CITCTITCCC ATTTACCAAT TCAGAGAAAG
CCCGTTTCCT GTTTTCTCCT CACCACTTTG CCTTGGCATC ACACCAACCC TGCCTCGGGC TTCAGCTGCA GATCCTCCCC
AGCCCCTCCT CCCAGCTGGG CTGACTCCAG TCCCAGCCCC AGTCTCCACC AACTGAGCAG CGTACGCAGG GTTGTGTCTG
GCTTCCAGCA TCTACCAACC CTTCAGAGCA ACTT

SEO ID NO:110: (Length of Sequence = 364 Nucleotides)

TCTCAGAGGG GCTCTGGGGG TCATTCAAGG GGGACTTCTA GCTTCTCTCT GGAACCCTTT GTCCAGAGCA AAGCCAGGTT
TCCAAGGTCC CCACGGCAAG GCTGTTGGGT GCTGGCAGCA AGAGGTACAC AGCAGTTCTC CCAGCTCACA GCAGTGACCT
CAGATCTCCA GCAGCAAGGG CCGCACTCTC GTGCCCACAA GGGCCTTGCA GAAATNCTCC GGTCCCTGGG NCTCCCCCGG
CAGGAGGGGC GGGGCTCCTG CCTGCAGTGA GGCCACAGCA CTAAGCGGCT TCAGTCACAT GCTTTTCAGG TGAATCACTC
CAAATTCAGT GAGGAGGGCC ACGACAAGGA AGTTCAGGTA GAAG

SEO ID NO:111: (Length of Sequence =455 Nucleotides)

TTTTTTTTT TATATTTAA ATGGAATTA TTCTATCAAC TGCCTGAGAG GACACAATG GGGAGGGGCT TCGGACCACA
GCAGGAGCCC CGACTGCCCA CCTGAGGGCA GGGAGAGCCT GACCCCATTG GCCCAGGCCC TGGCTCTGTA ACCATTAACC
TCTTCCCCCCA ACTAACACCA ATGAAAACAC CATTCCACGT GACTGGGCTG TGTGTTGCC TCTGTGACAT GGGGACCCCT
GACCCTAGGG GTCTCGCCTG AGCCAGACCT GAGGGACCCA CCCGCGTAGG ATGGAGGAAG GTTTAGGCCT CCCTTTTGCC
TTCCCAACCCC GGGGGGTGGG GCAGACCCTG GGAGTGGGCC TTACAGACCA GCCACAGGTA TTTCTTAGGC AATTTGACAC
ATTTTATTAC AAAACCAGTC TACATTCATT CCTAAAAGGG TCATTTTCAG TAAAA

SEO ID NO:112: (Length of Sequence = 398 Nucleotides)

CTGATCTGAC AGGAGGIGIA GGICAGGCAG TAATGGAAGT SATGGGGAAC AGCTGIAAAT ACAGATAAAG CITTACTCAC TCGCCCACCC ACTGCTCATC TCCTGCTGIA CTGCCCAGTT CCTAACAGAC AGCAGACAGC TACTGGTCTG TSGCCCAAGG GTTGGGGACC CCTGACATAG ACTAAACAAT TCACAATGTT TATATTAAAC AACTTATTCC AAGTTTCCAT TTTAGACTCT GGAACATCTG ACATGGTGAA TCCACAGGTA GTAAATSGGA AGGGAGATAA CAGACAACTT GACGGCCGTG GAAGACGCAC TGGGGGGGCA CTGGTGACAGG GTCTCGGACA AGACTTCACA TCTCCAGACT GGCACAGTGG GCTCACACCT GCCTCCCA

SEO ID NO:113: (Length of Sequence = 444 Nucleotides)

ATCAGTGTCA GIGICIAACA GAAGGGTCIG TTAAGGATGC TTCTGATTTA ACCAAAAGAT TAAGCTTCAG AAACAATCTA
ACATACTCAA AGGAGCACCA AATTATCAAC CGGCTACAAG GATGCAAAGG ACCTAAACAA CAGATGTCAA AGGGCTTGTA
AAAACTGGAG CCAGCAACCA TTCCACTTGA AGGAATCCAT CTCAGGGAAA TGCTGGAATC CACACACAAA AGCAGGTGTG
CAAATAATCA CTGCAGCACG CCTTCTAATA GTGAACAACA GAGGCAATCC AAATATCCTT CAACAGGGAA CTGAGTAAAT
ACCAACTATG GGCATATCCA CATAAGGCTC TCTGCAGTCA TTAAAAAGGA TTGCACTTAC ATGCATGTCT GCCATGGAGG
TCTTTCAGGC CAATGGTTCC ACTCGGAAGG GCAACCACCA ATTA

SEO ID NO:114: (Length of Sequence = 472 Nucleotides)

TOSGGCCCCA ACGGAGACCT GGGGATGCCG GTGGAGGCGG GAGCGGAAGG CGAGGAGGAC GGCTTCGGGG AAGCAGAATA
CGCTGCCATC AACTCCATGC TGGACCAGAT CAACTCCTGT CTGGACCACC TGGAGGAGAA GAATGACCAC CTCCACGACC
GCCTCCAGGA GCTGCTGGAG TCCAACCGGC AGACACGCCT GGAGTTCCAG CAGCAGCTCG GGGAGGCCCC CAGTGATGCC
AGCCCCTAGG CTCCAAGAGC CCCCAACCGG GACCCAACCC TGCCTCCCTG GGGCTAAGCT CTGGCCTGGG GCACTCACCC
CCTGGCTTAG ACAACTTCTC AAGGGCTTGG CCTTCAGGGG ACCCTTGTGG GTCTTGCCTT GCTGGGGCCA CCTTTTCTTG
CTTGGGGCTT CCCCTTTGGC CTACCTTGGG GCCAAGCCCC TACCAACTTT GGATTGCCTT CTTGGGGGCC AA

SEO ID NO:115: (Length of Sequence = 293 Nucleotides)

CINEGEGECA TETEGETEAT TTCCATCAC TTCCTTCCAT TRECTACGEC GACATGGTGC CCCACACCTA CTGCGGGAAG GGTGTGTGCC TRCTCACTGG CATCATGAGA GCTGCTTTA CCGCGCTCGT GGTGGCTGTG GTRGCTCRCA AGCTGGAGCT CACCAAGGCGGT AAAAAAACGAG GCTGCTAACG TTCTCAGGGA GACGTTGGCT CATCTACAAA CATACCAGAG CTGGTGAAAG AAG

SEO ID NO:116: (Length of Sequence = 448 Nucleotides)

TITIGAAAATT TAGAGGATAT TTATTTCTCA GGAAGGTGCA CAACAGCTGG CAGGCACTGC TITICCCTGCT CTAGGGGATT
CCTCTCTCT TITICCAAGAA ATCCCCTCTC TTCTTAGAAG TGCCCATGGG AGGCTGGGAT GTGAAAAGAA ACCATACACA
ACACTCCAGA GCCTTAAAAA AATAAAGCAA CAACCTCCTC CACACGAATA CACTTACAAA ATAAATAGAC GGATAAAAGA
GAGGCCACGT GCCTCCCATC CCGGCTGTAG GGCTGCTTGG GGATAGTGGG GCTGGGTGGGC TCGGTCCCAC TTCTCCCAGC
CAGGATGATC CAAAGGCTAA ATGGGATGGA AGGGCCCTGG CTTTCAGAGA GAGGGTGGGG CAGGCCTCTC CTGGTACTCA
GCAGGGAGGA CACTGGGGCCA CGGGTAGGGG TCCAAGGGCC ACTTTAATA

SEQ ID NO:117: (Length of Sequence = 551 Nucleotides)

GAGACGGAGG CICGCICTGI CCCCCAGGCI GGAGIGCAGI GGGGAGATCI CAGCICACIG CAAGCICCGC CICCCGGGII
CACGCCATIC TCCIGCCICA GCCICCCGAG TAGCIGGGAG CCAGCGGCC CAGCCIAAAA AACTITICAA GICAATATTA
CIACGATTIA ACATTAGAGI GIGGACATGI GAITIAATCI CIATAGCIAA AATACOTCAA ATATACGIIG TCATGIGCII
GAACATGATG CIAACCCTGA CAGGATGAAG GAAAGTAATA TTCTTTCAGI GIAGITCAGG AGAGCATTIG TITTCIITTC

TACCAATTAA CCCATCATTG CTTTTAAACA ACCATCTGAA GGAGCAGAGA GGCAGGGTAG AAGACAGAAG GGGTCTATG
TGGGTACTAA AGATGTTTCT GTTTTGTAAT ATTGTGTGTG TGTGGGTTTA TGGTTTGCTT AAGGGATCAA AACCTGGAAA
AAATGGGATT CCAGGAATGG CTCTGTTATT TTTGCTGGGT TCCAGCTTGT AATGCCTACT GCCTTGGTTC A

SEO ID NO:118: (Length of Sequence = 426 Nucleotides)

CCCCACCCCA AAATCAAAAC TEAAGSTAGT GTCAGTGTAT ATATGGRGTC CCTTGTGCTG AAAGTCAAAG CAGCTTCATT
TTGGGGCCTC AAGAGCTCCA GCTCTGGGCT CTTCACCTCT AAGCCCATGG GCAGTGCCCG CCCAGTGGTG TGTATAGATC
GGAGGCTGAG GGCCTCACCC TTAGGCTGAGC TGTCGGGTGC TGGGGGAGCCT GTGCAGGAGG GTACAAGTAG GAAAGTGCCA
TCTGCATGGG AAGAAAAATG CAGCGTCCTT GGTAGTGCGG ATGGGGTCCA GGAGACCCAG GGAGCTTGCC CAGAGGGACC
TGAGTGGCAT TCCTGTAGGA AAGCAGCCCA GATCTTGGGG CCGTAACGGA TGTTCTGGAA GTTTTGACTT TGAACCACCA
GGTCCCCATTG TTAACAAGCT TCTTGA

SEO ID NO:119: (Length of Sequence = 434 Nucleotides)

TTTTTCGGTT AAAAAGGCCC AAAACTTTAT TTAGTTTTCA GGGAAATATA AGATGCATGT AAACATAAAA TACAAAACAA
AACCCAAATC TTACAGTCTA GAAGCATGCC AAGACAGAGC ATTTTCTGCA GACCAAAGAG TCCCGTCAAA GTGATAAAGG
ACACCTGGAA AGTGGCAGGC CAAGGGGCTG GTCCCTTCCC CAAGGGCACT GCATTTTTGT GATGAGATTA AAAACAAACC
AACTCCACTA TTAAAAATGC TAGAAACATG GGATAGTTTA GCACCACCAT TGATTCTGGC AAATATTTCA GCACTCACAT
CGACTGCACT GAGTTTAATG TCCTTTCTCC AGTTTCTCTG CTGAGGAGGG AAGGAGGGAA ACCTGGGCGG AAGGGGCTCC
TCCTGACCCC ACAGGGCCAC TAGGAGCTTG GAGG

SEO ID NO:120: (Length of Sequence = 276 Nucleotides)

AGGAAGTGTT AGCAAATGCT ACCATGTGGA ACACTCAACT TTATTTGCTT TATTTATATA TTTAACAATT CTAAAGTATT
TACTTCTTGC TTTGACAAAA AATGAAAAAT ATAGGGGCAC TGACTGACTC CTCTTTAGGA GAAAAGGGTT ATATGTACAG
CTATGGAGGA TTACGGTTCC CCCTTTAACA AAGGCAAATA TTAATAAAAA AGGGCTTCAT CGGTCAAAAA AGGGCTAAGA
GCTGCAAGCA TTTATTCACA CTGTACATCG GGCCCC

SEO ID NO:121: (Length of Sequence = 554 Nucleotides)

ATTICITICC TRATCATAT CIGATECIEG GATETESSTA ACCCAAACT GAAGGCAGCT GCTAAATCTC AAATGCTAAA
AAAATACIEC AATTITEACA TCAGTEAGIC AGATCAATAC ATCCTCTEGG GCTGATTTTG CITCACAGIT AGGATGAGCC
ATCTCTTAAG CIGCAGGCTC AAATGGGATT AACTGAACTC TATACCTGGG ATGGGCCATG GACTGAGCTG TCCATGCAGA
AGGACCAGGC TGTCCATGCC TTCCCTGCCC TTTTACTCAC CACTGCACAG CAGCCCCCAGT GGGCCTACTG CACATGTCTA
GGAGAAATCA CTCTAAGAAA ACCAACAGGA ACAGGCTTTA GGCAACAAGA GACGTCTCAC TGCATCTCCT CCCACGTCAG
AACTTGAGTA CTGGGTCTTT GCAGCTCAGA GCATTCCTCC CTTCCCTTTC CTGCCCGAAA GGCCTGCCTT TTCCTGAGAC
ATATGGCACT CCATGCTGCA AGTTTCAAGC AGATGCAGGT TCTTATGGGG CTTTTTTGCTC AAAGAGCTTT GGTT

SEO ID NO:122: (Length of Sequence = 238 Nucleotides)

CACCTAAGCA GGTAGACATC CGCAAAGTCA GATGCTTTCC AACATGACAC CTGAACATCT TCCTTTATGC AACACCCAAA CATCTTGGCA TCCCCACCCC AGGAAGTGCG GGGAGGAGGT TATGATCCCT GGGCGCTTCG GCAGAATGGA GAGCTGAGGT GTCCCTCCCC TGCTAGTCAC CTACCAGGTG TCTGAGCAGC TGCATGCTCC CTGGCTCAAG TGGGCACTGT ACCTTTTG

SEO ID NO:123: (Length of Sequence = 244 Nucleotides)

ATCCAGGCTT TCATTTCTAG CCAACCCTCA AACACCACCA ACTACAAAGA AAATTTAAAA GTCTAATTTG TAACCTTCAG
ATAAGTATAA ATTAGTTTTT TCTAGGCTTT CATTATTTGG CTTCTTATAC AATCTATCTT GTAAAGTACA TTCCTCTAAA
TTTACATTAT CTAAAATTAA GGCTAAGCAT TATTTAAATC ANTTAATCAT ACAATATTTT ATGGCAATAT TCACATATTT
ATAA

SEO ID NO:124: (Length of Sequence = 330 Nucleotides)

CTCAGCGTAT CATAGGGGG CTCACCCTCC TCCCCAGGCT CCCGCCCCCC AGGCAGGTGG TGTAGGATAG AGTGGTGCAT
GAAAGGGGGG AAGCCCGAGG GGCCCGCTGG GAAGGGTGCT GCCCCGTAAA GGGCATCCCA CTGCCACTGT GCCTCANCTG
CCGCTTTCTG CTTCAGCTCA GCCAGTCGCC GCCGCTGCTC TTCAATCACT TGTTGTCCCT TCTGCTGCAG AGCTAGTTGG
CCGCTTTTGTC TCGATGTCCT GCAGTGTGGC TGCCAGGTTG CAAGGAAGGC TGCCCGGTGC CATTCTGGGG GTGAGTAGGA
GCGCTCTTTT

SEO ID NO:125: (Length of Sequence = 281 Nucleotides)

CCTCTCTCCC TTCGGTTCTC CATTTACCGA GCCACAGTAT TTCTTAAAGC TCGTTGGCAG CCTGCACCCT GCTTATTCTT
GGGAGACACG AGTTTGCATC CTATTACAAC CCATAGTTTT TGCATAACCA TGGTGAGAGG AACCATCCTT CCCAATCCCA
ACCTCAACCA AAGCTTAGAA AAAGTGCCAT CNTTAACCTT TCAGAATCAC TCATAAGTAA ATCCTATAGC AGTCTCTGCT
AATGCAAATT TCAATGTGTG CCCGCTTATT AGGTGACTTT T

SEO ID NO:126: (Length of Sequence = 266 Nucleotides)

CTITIAATEA TETEGITCTE GIGGGATTIA TAAAGGGAGA TGGACCCCIG GNAAGATGCT TICCIMAACC ACAACCCACA CATTGGGICA CCATTICCTC TICCICCTCC TICTIGIGGGI GGCCGGAGAC CIGIAGGACC TICCCCCCT TIAGGGITCT GIAAGGCCCC TINICAGICC TCAGAGTCCA TICTICTCTT GIGCTGAGGG CCIGCAGTGG GGACCATATA CITCIGGIGC TCTTAGTITG CIGICGCGCIC TGTTTT

SEO ID NO:127: (Length of Sequence = 435 Nucleotides)

GECTIGATE ATTICATITE TAGTIGOGAG ANAAGGAATG ANCOGTGACT ATGGCAATIC ACCGTGACGT GEGATAATIT
AGTITGCTAT GAGTITICAC TCTTAGGTAA AACCTAGTTA TCCTAATTAA TAATTAGTTA TGGATGATAT AGTAATTITT
TTTTTTTTTTT ACTGCGTCTC ACTGCCATTC GGGCTGGAGT ACAGTGGCTG ATCACAGTTC GGTGCAGCCT CGACCTCCCT
GGGCTCAGTG ATTCTCCTGC CTCAGCTTCC CAAGTGGCTG GGGATTATGG GCATGCACCA TCAATGTCTG GCTAATGTTT
GGTGTGTTTT TTTATAAAGC CAAGGGTTTT GCCCATGNTT CAAGACCCCG GGGCTGGTCC TTGAACCTCT TTGGGGCTTC
AGGCAAGTCC TCCCACCTTC GGGCCTTCCC AAAGT

SEO ID NO:128: (Length of Sequence = 471 Nucleotides)

TTCCCTTCCC AAGGACTCGA CCTGAGAACC GCCATGTACT CGGAGATCCA GAGGGAGCGG GCAGACATTG GGGGCCTGAT
GGCCCGGCCA GAATACAGAG AGTGGAATCC GGAGCTCATC AAGCCCAAGA AGCTGCTGAA CCCCGTGAAG GCCTCTCGGA
GTCACCAGGA GCTCCACCGG GAGCTGCTCA TGAACCACAG AAGCGGCCTT GGTGTGGACA GCAAGCCAGA GCTGCAGCGT
GTCCTAGAGC ACCGCCGGG GAACCAGCTC ATCAAGAAGA AGAAGGAGGA GCTGGAAGCC AAAGCGGCTG CAGTGCCCCT
TTGAGCAGGA GCTGCTGAGA CGGCAGCAGA GCCTGAACCA GCTGGAAAAA CCACCAGAGA AGGAAGAGGT TCACGCCCCC
GAGTTTTATTA AGTCAAGGGA AACCTTCGGA GATTTCCACA CTGACCAGCG AGAGAGAGG CTTTAGGGCC A

SEO ID NO:129: (Length of Sequence = 186 Nucleotides)

GCCTTTAACA TCCTCTGCCA ATRACTGGCC TCAAATCACC AGTGGAACCT TTTCAAAAAA TACACCATTG GCTCTATGTA
GTTCTACTGA TCTRAAATAT CCACGTGTGG GCCAGGAGCA CTGGCTCATG CCTGTAATCC CAGCATCTTG GGAGAGCGAG
GAAGGAGGAT CATTTRAGCC CAGGAG

SEO ID NO:130: (Length of Sequence = 307 Nucleotides)

ATAAAATACT TAGGAATATA CCTAACCAAG AAGGTGAAAA ACCICICCAA GGAAAACTAT GAAACACTGC TGAAAGAAAT CATAGACTAC ACAAATACAT TICATGCTCA AGGATGGGTA GAATCAATAT TGIGAAAATG GCCATACTGC CAAAAGGGAT CTWCAAATTC AACGGTATCC CCATYAAATA CCACCATCMT TCTTTACAGG NITCGGAAAA GGAATTCTAA AATTCATATG GGACCCAAGA CGGGGCCGC ATAGCCCATG GCCGCTTAG SEWAAGGGA CAAATCTGGG AGGCCTT

SEO ID NO:131: (Length of Sequence = 184 No sotides)

CCAGGITGGA TGGCAGGATC TCGCCTCACT TACCTCCC AGGITCAAGC AATTATCCTG TCTCAGCCTC
CTGAGTAGCC GGGATTACAG GCACGIGCCA CCACACCCAG CCAATTITTG TATTTTTTAGT AGAGACGGGG TTTCACCGTG
TTAGCCAGGA TGGTCTCAAT CTCC

SEO ID NO:132: (Length of Sequence = 270 Nucleotides)

GENEGAGGE GIOGAGGEC AGGACTATI CIACACGECE GAAATGGETG ACCCEAAGIC AGAACIMITE GMENAGACAG CEAGGAGCAT TGAGAGGACC CIGGACGACC TEITECGGAA TICAGACGIC AAGAAGGATI TEOGGAGIGI CEGCTIGCGG GACCIGGGGC CCGGCAAATC CITECGINNIC ATIGIGGATG TECACITITAA CECCACCACA GECTICAGGG CACCEGACGI GGCCCGGGCC CIGCTCGGT AGATCCAGGT

SEQ ID NO:133: (Length of Sequence = 529 Nucleotides)

CTIGCAGIAC ATAGCATIGI TATTACIGAT AGCITIATAA ATCIGCCAAA TAACATAGAA TGIAGCCICA AAAGGATGGI
CGAGGGITCG CAATCITICT TICTCCACCC AGIGGIGIGG AGCAACICIG TGCCITAAAG AGGGCACCAT GGAAAGAAAC
AAAAAGGAAT CICTITCAAA ATGCTGGAAA TIAGGCITAG CTCACTACIT TCAGGATAAA GACAACIGCA TCIAATTAAG
TCCACTCCAC ATTTCTTTGG ACTCTAAGIA TICTGCACCT GAAGGCTAAA TIGAACIGGC TCAGCCCTAT CITTITTGCC
ACATCITIAA TIACAAATCT ATTTCTTCIT CCITTCATTT ACTTCTCTTC TCITAAGIAA GAAATGIGGG AAATGAGACT
GGCAGITTGG TITGTTTGCA TGIGGGIGIC CATTAGGCGT CTCATCCTAT GGCCCTITIT GGAAATGTTG CCITCCTACT
ACACACCIGG GAGGITTCCC CAAGGCTCAA CCITTTTGCT TCAGGIAAA

SEO ID NO:134: (Length of Sequence = 437 Nucleotides)

GACGGTGCG ACGCGTGCAC COGGGATGTG TCCTGCCACC AGAGGAGGTG TGCGTGGCGG GGAGCAGAGG GGCTTTGTTT
CCCAGGTGAA GGTGCGGCTT CTTCACTCTT AGAGGTGCGT GTGTGGGTGG GGGTGCTTGC TGTTGAGGTT TATGCCTGTA
ACTGACAGCT GTCCCCCAAG CCATGCTGGC AGAGGTGCGT GTGTGTGCGG GCCACCGCAG AGGAATCCTC TGGGCTTCTG
TGGTTCAAGT GGGGCCCAGC GCAGAGCTCC ATGAGTTGCT GAGCAGCCAG CCCTTCAGCA TCTCCTGGGT TTTGGCAGCA
GGAGGGGTCC CCTTGTGCAA TTCAGGGGGC CGTGGGGGGCT GGGGGCACTC GTAGCAAGGT AAAGGAGCCC CTGCTCAGGC
CCTTGTTTGC TCCCCTTTCT TGCAAGAGGG GTAGACG

SEO ID NO:135: (Length of Sequence = 534 Nucleotides)

GGCATTGITC TOGNEGGIGT GTCACGCTCC CAGAAGACTG AATTIATGGT AGGATCACTC GCAAGGCCTT GTGAEGCENT CTIACCIAAA ACAAAAGAAA TATCAGGGAC TTITGITGAC TATTIACAAC TCAGITTIAC ATTIAAATTC AGGCAGIGIT AATATGCCAA GGIAGGGAAT GTGCCTTTIT CAGAGTTGGC CAGGAGCTCU TGGCTGGGAC ACGGAGAGGCC AGGIGTGGCG TAAGGCCTCA CTCCCGGCTG TGAAGGTCTC TGATCACACA GAAGCAGCCC TGCCCAGGCCT GGGTCATTTG CTGTCCGCTT
TTCTCTGTGA CCACAAGCAG CCCTGAACAA CCAGTATGTG TCTTCTTTCT CCAGATAGTG AAAAAGGGTG TCCAGATAAA
CCCACCTAAG TGAAATGGGC CATCCTCTAA ACTGGGGTAC CTCACTGCAC AGGTTCTAGG TAGGCTTTCC ACTTAATCTA
ACTTGAGGCC TACAGGTACC CTGTAAAGTT AGTGGGGCTT GTCCTTGATT GTGG

SEO ID NO:136: (Length of Sequence =279 Mucleotides)

CAGTITICGAC AAAGIAGCAT AGTGACTIIN TICCTACANT GACTITICGGA GAAGIINGCA GITTICTGGCA AAGTGACGCT
GGGCTGTTTG AAAAAGGCAA GCTTAGCCTA GGCTGCCATC TTAAAACATT TOGAGGCTGT AGCTTCCTCA GGATCCTTTG
CCTGTGGTCT GGTGGCCCGC AGTGCCCCGT CTAACAGCTT TTAACTCTGC ACTTAGTGCC TGAGCACCTA TGGCTGTGAG
AGATGCTAGA TACAGAACCC TGTCCTGTAC CACGTGGGG

SEO ID NO:137: (Length of Sequence = 518 Nucleotides)

CARATATTIA ATGGAGATCT TCCTTGTTGG TCTGTTATAT GTCTATCCGT TTCTGGGTGG TTTAGGAGAA TCTGTACTAT
TTCAGCATGT CCTCCTCCAG CAGCAAAATG AAGAGGAGAA CTAAGTTGTC CATTTAAAAAG GTTTGGATTG CACTTTCCTT
TCTCTAACAA TATGGGAGTG GCCTCAACTT TTCCATACCA GCATGCATAA TGAATGGGTG CCCAGTGGTC ACTATCTAAC
TGGTTGACTG AAAATCTTTC ACTGAGAAGA CGCCTTAGTA ATTCTGAATC TCCTTCACAG GCGCTTCGGT GGAGAGGAAA
ATCATCTACC CACTGTCGTT CCTTGTCTTC TGTGACACTG CTCATGCTTC TCTGCCAGTT TTTCCTGTTT AGGGTATTTG
GATTTTTGAG TAGTCTGGAG CTCCTAGACC CAAGTATGGA TTTATTACCC ACTTATCTAC CCGATTTGTA TACTGAGGAT
CCTATCCAAC AAAGGGTGTA AATCCAGGAT CCGCCTTC

SEO ID NO:138: (Length of Sequence = 266 Nucleotides)

GATTGCAGGC ATGANCCACT GOGCCCAGTC GAGTGGTAAT ATGTTMAAAG GAAACCTTTT TCTGAGCAGG TCTCAAAAGA
GAGGTTAAAA TACTGAGTAG ACCATMCTGT AAACAGATGT MCTGTTATYC GGGCTTTCAT ATTCCATTTA TAAAGCACAG
GCAGAGCTCA GAGTAGATTT AAYGTAACTC TGAAGGGCAC TAGGATTTTC AGAATGGTAA ATAAGCATTG GCTTCACCTT
AAATYCAAAT CTGCATTGGG CTTGTA

SEO ID NO:139: (Length of Sequence = 341 Nucleotides)

ACCTOGOTCA COGCTOTGAC CACOGACAGG CAGAGCAAAG GATGOGGGAG TIGOCTOTGC TGCCCATCIA AGGGGACGTA
GGCAGAGAAG CAAAGGCCTC TGCTCTCCCT CCATCCATCC CGGTGTGCTG GCCCCAACGG AACAGGAGTC CTTCAACTAT
TGCCTGCCAG AGACCCAATT TTAGGGACTG TAGTCTGCAT CTGGATGAGC TGGGCTGTAG ATTGAAGTCT CAGAAGCAGG
GAAGGTTGGA AGGGGTAGGG TCCCAGAGCC CATGGAGTTA TTGCTGAGAA GATATGCAGG GGACACATTT CCCAGGGGCA
GAGTAGAAGC CCTGGGCCTT G

SEO ID NO:140: (Length of Sequence = 234 Nucleotides)

GTGAAGGGAG TTGCAGAATC AAATTGCTAC ATAGGCCAAA CAAAAAAGAA GGCTTTTTCA AAAAACATTA AATTCACATG CAGTCTCAGA GACTATTTAG GCAAAGTTCA AGTTAGGAGC TTTTAGGATG TGGGANTAAA ACTTTAATKG GAGGGGAGGG CTTGCTTCTG GAGAAGGAAG AAGCCAGACT TGTTAGACAG TACTCTTAAC TCCTAGCCCA GCCTAGCGTG CCCT

SEO ID NO:141: (Length of Sequence = 354 Nucleotides)

CHACTURGET TAGCAACTEC AGGAAAACTT TCTTCATTTT CACTGAATTT TAAAGAGAGA ATULTGICTC TATTTCTCAG AGAAACTTAG GIGAAAAGTA AAAGAGAGGC AAAATCTCTT TCCTTCATGA GATACTTTTA TTTTTATCTC TTTCTCTACT CATGGCTTA ACTGGGAAA TGATTCTGTA GAAATAGATC CTTCTGATTC TGCATCTCAT TTCCTTATGG CAACTACAAC AGGAGGAATC CAGCTGGAAA TGCCACTAAC CCCACATCCA GCACCTGAGA GAGGAAGCCA GTCGGAGGGC CGTGCTGGGC TCACTCACTC TGGGCCTGCG CACTGGGGTT GTGG

SEO ID NO:142: (Length of Sequence = 373 Nucleotides)

GITTITICAA CACTITITIT TIAAGITATI GOGIGCAAAA TCCCAAACCA GGATAIGIGI AIGICIGIGI GITIAIGITI
TINATITGAC CCTCCCCTCI TICAACCIAC CCCCTITIAT AICIAATGIA GAAAAAGCGA AATIGAATCI GGAAAGCAAA
CIGITGIATA TAGITGCOGI AACAATCAIG AAGAGAGAGC CGGCCIGICC AGITGITITIT GAGACAGAGI CICACTCIGI
TGCCCAGGCT GGAGIGCAGI AGCAIGATCI TGGCTCACIG CAACCTCCCC CTCCCTGGGT TIAGGCGATI CTCCTGCCTC
AGCCCTCCCA AAGIAGCTGG GATIACAGAC CCGTACCACC ACAACTGGGC TAA

SEO ID NO:143: (Length of Sequence = 262 Nucleotides)

COGCACCTOG GCCAGAGGOG GCTGCAGCAG CTGCTMCCTT TTCCCTGCCG CCGCCTCTCC AGTCCCTTTT TTAATTACCA
CTCCAMCTGC TGGGAACGGG CGAGAAAGAG GAGGAGGCGA GAAACTCCCA CCGACCCACA GAGGGAGCAT GATTTCGGCA
ACTTCACCTA TCATTCTGAA ATGGGACCCC AAAATTTTGG AAATCCGGAC GCTAACAGTG GAAAGGCTGT TGGAGCCACT
TGTTACACAG GTGACTACAC TT

SEO ID NO:144: (Length of Sequence = 384 Nucleotides)

GGAAAAGCGG GACCCAAACA GTOGTGCTGG GGAAATTTTT CCCTGTCCCC TTTGGAAGGC TGAGTGGGTG ATGCAGCACA
GGAACAAGGC TTGGACGTCA GAGGTCTCAT CTTCACTGTN ACAAAGCATA AAGGACTTGG GGTTGAGCGT GTGTNTGGGC
TCAAAGTGACC ATGCAAGTCC TGTCACCTCC TTCCTAAGAC CCCATCCTTC TCCCCAAGTCC TCCACAAGAG CTACCTTCTT
CAAAACAATA ACAGAAACAC ATCAAGCTTG GGCGTCACTG AATTCAAGTT CTGATTTCTC CCGTCACCCCC AGCAACAGTG
CCCAGTTTGA TTGTGACACACT TTGACCCAGC ACTTGGTTTT GAATGTTCTT TTCGGCTTGT ACCG

SEO ID NO:145: (Length of Sequence = 324 Nucleotides)

SEO ID NO:146: (Length of Sequence = 355 Nucleotides)

TITIGCCTCCT TCCTTCCTTA TCCAASCAAG GETETGGIGA CAATGACCIG ATCGGGGTIT AACGCCGGCT CIGICTGCTC
ACCAGACCIG GGGIGCTGAG CTCTGACCAG CCTGGGCAGC CCAACCCACA GGAACTGCGG TITICATAGCT GGGICTTCAG
GAAGGGGTGG AGGCTTTGGG AGTGGCAGCT CCCCGCCTCC CACCACCCCA AGCCAGAGAA TGGGGCAAAC TTGTATGCAT
GGCTTATCTC TAAATTACTA ATCTGCTTCG GACCAGACTC ATCTCTACAG TATAGAGTTA GAGTTATTGC TTCTATGACA
GGTGTTCCAG AAGCCCTGGG TGGCTTTAAA GTCTG

SEO ID NO:147: (Length of Sequence = 337 Nucleotides)

CAGITITCIG AGITCCCGIG TGCTAGACTG GCCAGAAGAG AGGGTCTGGG GCCTGGTCAC TCGGCCACTC TCTCCTGTTT
CTGGCCTCTT CTCCCTTCAC TCCCGTCCAG TCTGGTTTTG AGAGCAGGGG CTGTTCTACA GCACCTCAGG GAAGGGAGGA
GAGATACCTG CTGCTTCCAT TGCTTTTCCC TTCCTGGAGT CGATGCCTTT CTAAGGGTTG GAGCTGCTCC TTGCAGGGGC

GGGTCAGTTT CCCAGGCCAT GCCGGGGGTG GCCATCTATG CTAGGGCTGG AAGCTGAGGC TGGCCGCCAA CTGTGGGGCT GGGGTGGGGG TGGGTGG

SEO ID NO:148: (Length of Sequence = 278 Nucleotides)

GGAATCAGAT GCTCAGGTGT CCAAGCAGGG ATAAGGACAG GCAAAATAAA TAACCCGCCC AACCCCCATC GTCACTCTGC
TGCAACACGA CACAAAGGTT TAAAGATCTG GGCCCAAAGA CTCTGGGACC CTTCAAGCAA GTCAGGTGGA AGAAGGTTTC
CCCACCCCCC ACCAGGCCTG TTTGTCCCAG GTTGCCCTAG GATGGAGGCA GTTCAGACCC TGGGTCACTG ATGCTTGATA
GGAAGATCTT TGATATCAAT GGCCTAAGCT CTGCTCAT

SEO ID NO:149: (Length of Sequence = 368 Nucleotides)

TITITITITI GITTICAACA AACTITACIA AATAACCCIG GAAAGGCAAT GAACGATCIG ACAATITAAG CICTAATGAT
TTAAAGCICA GCIAGAAGAA AGIGAGGCAT GACATATACT GICAACGGAG GGIGAAGGAG GCAGATITCI GGAAATGCAA
TGATCCCACA CATTIGCTIC AAGGAGAAAC CIGCAGACAT ATTITCAGGI CITGCTAAGI AACAACTGII TATTIGTAAT
CAATACATIT GGGGAAAGIC TGCTATGIAG CIAAGGICAC TGTGACCACA GACCAACAGA TGGAAAGGAA AAAGGCACTG
GACCAGCAAG GAAAAATACA TCCCCATCCI CAAAAGAATI TTAAGGIG

SEO ID NO:150: (Length of Sequence = 367 Nucleotides)

TTGTGAAATG GGCCTGGGTA GATAAGGAAA AGAACCTCCA AGAGGTTAAG TGATTTGCGG ATTTGCCTAA ATTATACAGA
AGAGTCAGCA CCAGTGCCCA GGCCTTCTGA TTCTTAGTGC AGTAAACACT AAGCACCATC ATTCCATTTC ACCACACTCC
TGTCTTGCTG TTGTCCTCAG CTAAGAAAGC CTACCCCTGA GTTACCCTCT TCCATCTTAG AGCCTTCCTG CTCGCTGTCT
GCCCCCCTGC GATGGGGACT TCTTTGGCCC TTCTCACCCA GCCCAGCCTC TGCCCGTTTT CCTTCTCCTT TCCACTGCGG
CTGAGCTCTT TTCTCCTTCC GAGAAGCCTT TCCTTCATCT TTCCTGG

SEO ID NO:151: (Length of Sequence = 366 Nucleotides)

CCCAGCGGGC CGCCTCCCTC CTCTCTCCTC CATAGGTGGG GGTTGTGGGC CTTCTTTTT TTTTTGTCTT GGAGGGCAGT
TAAACTTCTC CATTGCCTC TCTCTTCACA CCCAAATGCC AAAGGACACT TTTCCTTTCT TTTTGTGGGTA GTTGCAAAAA
AAAAAAATTC CTATGGGTTA CTCCCACTTT TAAATACTTT GTAACTTAAA GGCAAAGTAG TATGTCACTG TTTCTTTTCC
CTGTAGTTTA CTTTTGAGGT TAAACATCTT TCCATGTCTT TATTGGTCAA ATACAGTTCC TYCTTTTGTA CAATGTTAAT
CCTAATATGG ACCATTTTTC CTAATGGGAT TACCGATTTT TTTAAA

SEO ID NO:152: (Length of Sequence = 269 Nucleotides)

GITATICIOG CAAGIGCITT CAGGGCCCTC CAGGGTTIGG CIGGICACCA TGGAGGGGG GITCAGGIGC TGAATITIAGG GACCCCAGCA TCICACAGGI TTCCCCTTCC ATCITTCCCA GIGGCACTGI GICIGAGCAG GIGIGCCCAG GIGAGGITGI ATCCACTGIG TCTGAGCAGG TGIGCCCAGG TGAGGTTGIA TCCACTGIGI GIGAGCAGGI GIGGCTGITG CAGGIGGAAG TGGGGATATN TGGGCACCTG GGTGCCATT

SEO ID NO:153: (Length of Sequence = 260 Nucleotides)

TTTCAGGATT TTATTTAAAA TTTATTGTAA TGGGGTCCGC GCAAAAGGAA GGGGTGGAGG GTGGGGTACA TGCAGGGGAC
ACAGGAACAN GATCCACATG GCCAGGGNCA CAACTTCTTC TGTCGTGGGG AAGAGGGATG AAAAGACAAG ACCAGGCCTA
NGAGCTGGGG TGGAAGAGGG GAGGGGNAAC ACTGGCTGCA TTCCCCNAAC CCCANGANGC ACCTATAGGC CCTGGACCCA
TGGGTCACCC TGGGCCCTAG

SEO ID NO:154: (Length of Sequence = 405 Nucleotides)

TEGRACITET GASTEGGGAC CCATGATGTA TEGGTCTCAC CTGACTTGAG GTGAATTTTG GAGTGAAGGG CCCTGAGGTC
AGCTCCCAGG TCGGTCGTGC TEGGCCAGGC CTGGTTTTCA CAGGGGCTGA AGGATCCCAG TCCACCTGTG TGCATGTCAG
GGCTCGGCCG GGAAGAAGCC AGCAAAGTCC CCCGTGTCCC TTGCTGAGTA TTCTGTCACA GACAAGCCTC CATTAAAGCC
ACAGCAGTGC TACCCACCAC ACACACCTTG CTGGCCCGGC CACCACTGCT GGCTTCAGCC CCTTNAGCAG CCCATGGNTT
AGCAGACCCT CAGATGTAGG TCAGTGGCCT TANCTGTNTC TATCCATGCT GTTAAACTCC CTGCCTCCAA CTGGGGGTCA
CCAGT

SEO ID NO:155: (Length of Sequence =: 40 Nucleotides)

CCATGATCIT ATTIATIACA TCTAGITITI CITIATACCI CIAAAAAAAA GIGCCITITA GAITTACAGC TIGIGCITCI AAAGCAAAGG TTAAAAACATC ATGCCCCAAA GGAAAACAAG GIAAAAAGGA AGCIGCCATA TAAGCICTIA AAANITGIAT GITACAAGGI TCTAAAATCT CITCAGCACI GGITGGITGG TAGATTGIAC GACACTGACA TGGIGCTIGG GAGGGICATT TATCIGATGG TIGGAGCAGC ACCATGGGAA AGCIGCCCAG ATGGICTACI GAAGTCCTIG GCTGIGCACA GAATGCGCCC AAGGGCCAGN AAITCATGAG TCCGGGGAAC TITGGNGGIC CITACICAAT CTCCTTAGIG CIAAACNITC AGAGTCTCAA

SEO ID NO:156: (Length of Sequence = 443 Nucleotides)

GICCICIGGA TIGCITCGIT GGITGCGAAC TITAAGAATG GCAAACIGIG ATIGGAICCG ATIAAGACAA GCITIGIAGT
TITCITCGIG TAAACACCAA ATCCCGCCIG GGCCATGAGG TAGCAGAAGT GGGCCGCATC CAAGAGGCCC CITGAAGCCA
GAGTGICGCC CATGGIAGCC ATCGICCIGG ACTCGACGIC CATGITGITG TICAAGITGG ACAAGACCAT GGCGAGGTGC
GGCCICCAAT CICCCCATIT CICGICICCA CAGCACGIGG ACGCGGCAGG CATCCGICCG GACATGAGCT GGTAGACTGT
CTICAGAGGG TCGITGATIK GGGAGGCITT TIAGCAAACC TKGGICATGA CTCGGGCGIG TGICCGGCTG TICCATCITA
CTTGCAAGIA GCAGAGCGIG ACCCCACAAG GCCATTCTTA ATT

SEO ID NO:157: (Length of Sequence = 383 Nucleotides)

ATTGGAAAGG GTTTTAAACG GAGTCGGAAC CTGAGTAGAT TTCCAAATTT TACAGCCAGG ACTACAGAAG TGCATCATTC
TAGAATGTGT AGACCTGAGT AGCTTATACA CTACAGAGCA CTTTGCTTAT TTGAAAGTAA TTCAGCAACA GGTCACTTTG
GGATATAACC TGAACCTTTT TTTGGAGTGG GGTGGGTAGA CTACAGTAGA CACAAGGGCT GGACATGCAG ATGCTTAGGG
GATTAGCGTT TTTCATAATT TGTTCTGTTT GTCAGTTCAT TCCTGTGTGT TCTTACCTCT ACAAAGGTAC ATTACACATT
TTARGTTTTT TAGTGACCTT TAACCATGTT ACTTGAAGCA TTTTGGAATA TAAAGCTATT TTA

SEO ID NO:158: (Length of Sequence = 241 Nucleotides)

TGGISTGIGG CICAGCIGCA GCGGCASGIA AGIGGGISTC CAGGGGAGIG GACAAGCAAI TCICCIGICA TITIGCAACIT TCITICAGGAA CICAGATAAA GAACACITGG ATAACGATGA TCCCIGIAGA GGGATTICAT CIGIACCATC ACACATGGAA GAGGAGITTC TAGGICAGGA AAGGCAGCIN CIAAGCIAAA GGITTCITGG TCCCTINGIC CIGGCATGCC TTAAGGAGGG G

SEO ID NO:159: (Length of Sequence = 224 Nucleotides)

CTGTCAGTAA TGGCTCACTA AAGGGCCAGC AGTTTAAATT ACACAGGTTG CACTAAAAGC TGCAGCTTTG GCCAGGCAAG GTGGATCACG CCTATAATCC CAACACTTTG GGAGGCCGAG GCGGGCAAAT CACCTGAGGT CAGGAGTTCA AGACCAGCCT GGCCAATATG GTGAAACCTA AGCCTCTACT AAAATTACAG AAATTAGCCG GTCGTGGTGG CACA

SEO ID NO:160: (Length of Sequence = 377 Nucleotides)

GGAGGCTGAG GCGGCGGAT CACGAGGTTA GGAGATGGAG ACCATCCTGG CTAACACAGT GAAACCCTGT CTGTACTAAA
GATACAGAAA ACTGGCCGGG CGTGGTGGTG GGTGCCTGTA GTCCCAGCTA CTTGGGAACT CGGGAGGCTG AGGCAGGAGA
ATGACCTGAA CCCGGGAGGC GGAGCTTGCA GTGAGCAGAG ATTGCGCCAT TGCACTCCAG CCTGGGCGAC AGAGTAAGAC
TGTCTCCAAA AAAAAAAAA ATAATAATCA AAGCTCTTGG ATTTATAGTT TGGTCCCCAG CCTTGTTTTG ATCTTTCCTT
TATCCTGTTT TATTGCCATT TACCACGTCC TTTTGGAAAC ATCCCTTTCA ACTGCTG

SEO ID NO:161: (Length of Sequence = 273 Nucleotides)

GCAGOGGGG CGGGGGAGGA GGCGGCAGGG GCGAGGAGGG GGCGGCGGGG GGCGACCGC AGGAGGCCAA GCCCCAGGAG GCCGCTGTCG CGCCAGAGAA GCCGCCCGCC AGCGACGAGA CCAAGGCCGC CGAGGAGCCC AGCAAGGTGG AGGAGAAAAA GGCCGAGGAG GCCGTGGCCA GCTCCGCGCT GCTAGGCCCC CTTCGCGCGG GCCCGGCGCG CCCCCGGAGC AAGGAGGCAG CCCCCGCGGA GGAGCCCGCG GNCGCCGCAG ACT

SEO ID NO:162: (Length of Sequence = 286 Nucleotides)

TTTTGGTCAA ATAAATCAGA GTACTACAAT CATCAAACAT CTGATTCATT TAACATGTGA GCATCTATAC CTGCCCATTT
GTGTGAATAT TCAGTATATA TCTCATACCT ATTCTCATGC CTTCATTTAT TGTGGTTATG GCTGTAGATA TGGAAAAAAAC
AGTAGCTGAG ACATTTTTAT TATGAACTAT ATTATACCTT AATCAATCAG TCAGAAAAATG CTTAGGAAGA AGAAATGCAT
GATTGTAAAT GCATGATTTC AACATGCTAC CCGGCCAACA AAGTTG

SEO ID NO:163: (Length of Sequence = 342 Nucleotides)

TECCCAAGEA AGACAGAACA TEGAGAACCG TCAAGGCAGG AACCCCACAG ACTGTCCCTT CCAGCCCACA CTCTGCCACC
TCCTGGCCCT GTCCCAATTC TGAGCCAAGG CCTCCCCGAG GCAGAAGTIG CCTGGTCCTC TGTCCCCACA GTGACCTGAC
TGGGGGTGAG GGAGAAGGAG GAGAGAGCCC ATGTGTGGTG TGTGTGCCCC TGAGAACTTC GTGGTGACTG CCTTTGGGAG
CCCGCAAGTG GCCAGAGGCA GGGGTAGCTG AGTTCCTGGG AGACCCCTTT TTTTCCCCCCA RGTTCCCCAG AGGGCAACGC
CATCAGTAGC AGTGTGGTGT TT

SEQ ID NO:164: (Length of Sequence = 392 Nucleotides)

ATTACCCGGG CCCCGCCTCC CTAAAACAGA TCTACGGACC TTAACCGACG CCATGCTGAG GCTCATTCCA TCCCTGCRGA
CGTATGCAGA GCCGCTCACT GCTGCCATGG TGGAGTTCTA CACCATGTTA GGAGGAATTC ACCCAGGATA CACAACCTCA
CTATATCTAT TCACCCCGTG AAATGACTAG GTGGGTGAGA GGCATCTTTG AAGCGCTGAG ACCTCTGGAG ACCCTGCCTG
TTGGAGGCCT CCTTCGGATT TGGGCACATG AAGCTCTGCG TCTCTTCCCA GATAGACTCG TAGGGGATGA GGAGAGGCGT
TGGGGACTGAA TGAGAAGATC GACACGGTTG CTCTTGAAGG CACTTTCCCT AACCTTCGCC AGAGAGGAGG GC

SEO ID NO:165: (Length of Sequence = 406 Nucleotides)

GITATAAATTA TCTTGTTTTA TTATTTATTG TITATCICIT ACTGTGTATA ATGTAGAAAT TAAACITTAC CATAGGTATA
TACATATTGG AAAAAGCATC TTATATACAG GGTTTGTTAC TATCTGTGGT TTCAGGCATC CACTGGGGGT CITGGAACAT
ATCCCTTGCA GATAAGAGGG AACTGCTGTA TCCATAGAAT AAAAACACCC CATCTTGAAG ATAGGAGGTT CTGTAAATTG
GGATGGGGTC AGGGAATCTG AATTTTAAAA GTTTCCCATG TGATTTGATG CCCAGCCAAG GGCTGGGGAC CACTGTCTTG
AAATATAATG CTGAGGAAGA TACTGTCTTT GGATTTTCCT GGTAATTCCG AGTGCAAATT CTCAGGCTGG AACCTTATGG
GCCTTG

SEO ID NO:166: (Length of Sequence = 453 Nucleotides)

GAAAACTTIG CCAIGGICA GITTIATIGG AAGITCATIT TCCIGAATGI TIGGAAGAAA GICTAGIGAC TCAGGATAGC
ATTICIAATT TCACAGAGIT ATTITICCGI TATGAAACAC AGATIGCCIT TGAGGICICC TGITICIACT ACTGCCCCIC
ACTITIATGI GGGCCTCCTC TITCCITIGI TTCTGGAGAA CCITTICCIG TTCAATTCTG TTITAATITI CAGCAGTITT
TTTTCTGTGI GAGTGAGGCT GITTCCTAGC AGGGAGGTCT GGTTGGTCAT TTTCAAGITC ATCAGGGCTT CATCAGGGCT
TGTCCACTTC AACCCTTACG CTATAGGNCC CTNTGCACCA TCTGCANTCT TCAAAATGTG CCCACTGGTT CGTTCCCATG
GANGGCTTGT TGGTAATTTG GGCTTTTTAGG GGGGGCCCATG GAAGGAGCAA ATC

SEO ID NO:167: (Length of Sequence = 285 Nucleotides)

TTIACTCITA AAACTGITAC AACAGAATCA TGGACTGACA CAGGTAATGG CTGAGCCATA AGCAAATCGA GAAGTACAGA
AATGTCCCAC CCCAAACAGC TGCGGAGTAC ACATCACACA GGGCCTCTGG TCCCGGCCTT CTCAGGTGCT CTGGAGTGGA
GGATCCTTTG AGGGAACTCT GACCACTCCT GTTGTCTACC TAGAGAGCAC GCCACTTGGG CCACCTACCC CCAACCTTTG
GCCAAAGGAG TGAAAGGACC TGGAACCTGT CGTCAACCTC AGCAT

SEO ID NO:168: (Length of Sequence = 327 Nucleotides)

CTAGAGGGCA CTCTGTATAC CCGTCAGCTC CTGGAGCCAT TCATTCTATG CTGGGCAGAC AGGCTGTGAG AGGACATGGG
GGACGGTGGA AAGGNTCCAA AGACGAAGCT GINGTTTATC CTTGTTGGTT TTACACAGGG AATGATGAAA CATTGAAGGG
GTTTAATAAG CTTTTCCTAA AACATTTTCC CCCTAAACAG GCTGGCACTA TGTCGAAGCT GCCCAAATTT GAGATTGATT
TACCAGCTGC GNCTAAGTCA ACTAAACCCA NGCCTTTCCG AAAGAGACAT CGCAANTGGC TTACCCAANG TANTGTCCCG
TTTTCAG

SEO ID_NO:169: (Length of Sequence = 346 Nucleotides)

GGTGCTATGG AGAGCCGGCC GTCCTCCAGG GGTGAGCTGG GGAGGCTTCT GCGGTTCTGG AGTCCCGGCG ATGGCGCCAG
TTCCCCAGCA AACCCCCTCC AGAGCTGCCC CCGGATGCAC AGACAAGGAG GGGGCTTGGG AGTGACTTGA GGCTGTGACG
GGRTCGCCCT CGGTGTGGGC AAGTGAGTCC TCTGTGGCCA AGAGGTCAGA GTCGTCCCTG AGGCTGAGTC GAACACAGAC
CCGTGGCCCCT CATAAAAATTA AACATAAAAG CACAAAAAATG GGCGCAACCA GACAGCATTG GCTTTCAGAC AGGCAGGGAC
ACGGGGGCCC CTTCGTGTTG ACCTGT

SEO ID NO:170: (Length of Sequence = 398 Nucleotides)

TTEACCTCAA CTTACTGAGC AATGCCGTAG CTATGGAATA GAAGCATTTG TTGCACTCTT TTTGTGAGCC AGGCCCTGTA
GGAGGGATTG TGGATGGCAA AACCTCAGGT TCTGCCCAAA TCCTCCCCTT GGGGGCTGGA GGGTCTCTAG TTAATTGGCA
TTCCGGTGCT TAAGGCCACT TTTGGGTAGA GGTTTGGCAA GGATGGAGTG TCCAGACCTA TGATCCTCTA AGAACTTTAC
CTTTTAAAAAA CAGCCACCCA AATGGTGGTG GCGTGGGGGAG CAGGTGGTGG TGAAGGGACT GGGGGTGTCT GGCCATKGCC
ACGTACCAGA GGAGACTCTG TGAGCCCTCT CCCTGCCTGA GGGACACTTA ACTTTTATAG CACTACATAG GGTCAACG

SEO ID NO:171: (Length of Sequence = 321 Nucleotides)

AGACAGCATC TGGCTCTGTC ACCCAGGCTG GAGTGCAGTG GCGCAATCTC GGTTCACTGC AACCTCTGCC TTCCAGGTTC

AAGTGATTCT CCTGCCTCAG CCTCCCAAAT AGCTGGGATT ACAGGCATGT GCCACCATAC CCAGCTAATT TTTGTATTTT

CAGCAGAGAC GGGGTTTCAC CATGTTGGCC AGACTGGTCT CGAACTTCTG ACCTCAAATG ATCTGCCCAT CTAGGCCTCC

AAAAGTGCTG GGATTATAGG TGTGAGCCAC TGCGCCTGGC CCTTGGGTAA ACACTTCAAA TGCAMCCAAC CATTAAAGGT

SEO ID NO:172: (Length of Sequence = 293 Nucleocides)

GAAACITATA GICTIGCCIC CCAACCITCI GAACACICCA GIAGAAAAAT CITCICGCCI ACCITTATCA CCCCACGACC
TACTAGCATT TCTTACTCIC AAAAAAAATC TTTTCIGAAA AATCAAGACA GAGIGCAAAC AATCAGCATA ATTTTATTAT
GACARAACTT TTAAATTTTA TCCCCCICIC TGAGAGKTCI GCIAGGACTC CITCAGATAA GIGAAAAAAGA AAKTTTTTAA
AATTTATTCT CAAATCCGAA TTCCAATCIG TATAAAAAGG GCGATTCICC CTC

SEO ID NO:173: (Length of Sequence = 282 Nucleotides)

GCTTGGTCCC GITCCTCAGG AAAAGGATGG ACCTTCTCTT CITCTCAGAT GGTCCCTTCC ATTCCCCTGA AACCTGCATG
AGAGCTCCTA ACATGTTTCT CCAATGCAAT CAAGCCTAGA CTCCAAATGT CCTCCCAGCT CACCTCCATC TATGCATCTC
ATCTCTGGAT TTGGTGATCA GACTCTATAT TGACAGTAGG ATCTCAAACC CTGCATCCAT CCTTCCTCCA GCAAGCCCTG
CTAGCCACAT GAGGAACAAG TTTCCGTGTC TTCATGACTT CC

SEO ID NO:174: (Length of Sequence = 353 Nucleotides)

CAAGAGGIGG GAGAGGIAGG GGGCAACIAC AGCTCCCCAC CAGCCCCACC AGGGGGAATG GACCCCTCCC TGCCTCCTGC
CCAAGIGGCT CCCCCTGIAT TATGGGGGGG ACTITIGIGCA AACTCTGCCC CGAGGGGGTG GGGAGGGIGG AGGGTGAGIG
TGAAATGGCA GCGGTTGGGG CTGGCAGCTG TGCTACTGGG CACTGGGGGG CTTGTAGGGC TCCAGGAGGA GGGCCGAGAA
GGIGTTGACC TTGTCTGCCC CCCGCACCTC ATGGGGTAAC AGCGGCAMIT TCACGATGTG GAAGTTCTTC ATACAGGTCC
TCCAATCTGG TCCAGATACT TGGCCTGGGT TCT

SEQ ID NO:175: (Length of Sequence = 394 Nucleotides)

GCCCATGCCC TIGIGIACAT AATCICTAAT ATTIATATAT ATTGATATAG AATTCTCTCT ATAATATATG TCATAGAATC
TCTCTTGGGC CTGGCGTGGG AATGTGACAT TAAGAAAACA TGCTAAGACT GGCCAGAAAA ATGGATATTT CCCAGACCTG
GAGGATGGTG TGTGGGATGT ATAGGTGAGG TCGTGGAGAA GATAATAAAC TCATTCCCCA AGATACCCTC TTCAACACAA
GGACAAGAAG GAAGGTGTGT GGTGGGGGAG GGGACAATGG AGGGGGAAGAC GTGGAAGATT TGGATTTTCA TTTAATAAAG
TCAATTGAAA AATGAAAGTG CACCCCCCCT CCAAAAAAACA GGAGATTCAT TTAGCAAGAG CCGTTTCATT CACA

SEO ID NO:177: (Length of Sequence = 381 Nucleotides)

ATTGGGACGG GCCCCCCTCT GAGGCGACGG ATCGATAAGC TIGATATCGA ATTCCTTGAT NTTTTCTAGT GTTATGGTTT
TCTCCCACTC CAATAACIWI TCATACCTKT GGICTKAGIT TTTCCATCTA TAAAATCATG TGCTAAATAA TTAACTATCA
TCTCTATCAT TGTCAGACTA CACAAAGCTT CCAGCCTGGG CAACAGGAAC CCTGTCTCTA AAAAAAATAC AAACATTAGC
CAGGTGTGGT GGTATGCGCC TGTATTCCCA GCTACTTGGG AGGCTGAGGT GGTAGGACTA CTTGGGCTTT AGAGGTCAAG
GCTGCAAGTG AGCTGTGATT GCGCCACTGC ACTCCAGCCT GGGCAACAGG GCAAGACCCT G

SEO ID NO:178: (Length of Sequence = 443 Nucleotides)

GATTITATIC AAACACAGC AAGAACAATG ACCITCAGAG CIGGGIAAAA ATAATAAGIT AAAAGCATGG TIAGAATITT
AGACAATCAG ATAAAAAGIT TGAAGGAAGT GATTICCCCT TCCTCTCCTA ATTGATTAAT TCAACACAGC ATAAAAATAA
TITGIATCTA TAAAATATCC TIGITCCCAC ACAAATGAAC TGGAGGIGGC CCTAGGATTT CCTTGACTAT GCACAATGCA
CACAATCTAC ATGICCCTCC TCCCCAACTT TTAAGGCAAA AATGGICCTG CATCTTCAGG CAGAGGGIGG GCTCATGCCA
GCAGTCAGCT GTGGTCAAGG ACACTGGGGG TGCGTTTYCT CCACCGAAAG ATGCCTGCTT TGGGTCCACT TTGGGCGCGG
GATCCCCATTT TATTTTCTAG CCTGTGCCTC ACCACAGGGA AAA

23.00

SEO ID NO:179: (Length of Sequence = 325 Nucleotides)

TGGGGGACCA GCATTGCTCC CAGCTGAGGG CGCCGTCTTC CTCACCACGT ACCGGGTCAT CTTCACGGGG ATGCCCACGG
ACCCCTGGT TGGGGAGCAG GTGGTGGTC GCTCCTTCCC GGTGGCTGCG CTGACCAAGG AGAAGCGCAT CAMCKTCCAG
ACCCCTGTGG ACCAGCTCTT GCAGGACGGG CTCCAGCTGC GCTCCTGCAC ATTCCAGCTG CTGAAAATGG CCTTTGACGA
GGAGGTGGGG TCTTACAGCG CCGAGCTCTT TCCGTAAGCA GCTGCATAAG CTGCGGNTAC CCGCCGGACA ATCATGGCCA
ACTTT

SEO ID NO:180: (Length of Sequence = 213 Nucleotides)

GAGCATGCCC COGGAGTCCC CAAGATCCTG GTGGGGAACC GCCTGCACCT GGCGTTCAAG CGGCAGGTGC CCACGGAGCA GGCCCAGGCC TACGCCGAGC GCCTGGACGT GACCTTTTTT TAGGTCAGCC CTCTTTGCAA TTTCAACATC ACAGAGTCGT TCACGGAGCT GGCCAGGTTC GTNCTGCTGC GGCATGGGAT GGACCGGCTC TTG

SEO ID NO:181: (Length of Sequence = 219 Nucleotides)

AGCTITATCA CATTATACAC AAACATAGAA AACAGTGTIT CAGAAGAGAA GCAAAGGCCA TIGGCITCAA ATATTTATGC AACAATGAAA ATGTICTCAG CCCITAAATG AGCACTIGIG ACTIGICCAA CAGTGAGATA ACTAGTCAAT GGAAGAGTIC AACACTAGAG CATGTATCTC AGTCTGTTCT CATATTGCTA TAAAGGGCTS CCTCAGACT

SEO ID NO:182: (Length of Sequence = 451 Nucleotides)

GICTIACTCT GITACCCAGG CIGGAATGCA GIGGIGIGAT CATAGCTCAT TGCAACCTCT GCCCTCTAGG CICAAGTGAT CCTCCCACCT CAGCCTCCCG AGIAGCTGGG ACTACACGTA CATGCCACCA TGCCCAGCTA ATTITTGTAT TITTGGTAGA GACGGGGTTT TGCCATGTTG ACTAGGCTGG TCTTGAACTC GTGAGCTCAA GTGATCTGCC TGCCTCGGCC TCCCAAAGTG CTGGGGATTAC AAGCGTGAGT CATGGTGCCT GGCCTAGTTT GCTCTTATTT TTTTTCCATC TTTGCAGTTT CTAGGCCACT GGGAACAGGC TGCAGAGCTC AGAGTCCACA GCTGTGAGGC TCCATGTTGC ACCATCAAAA AATAAGGTGA CGAGAGTCCT GGGTTTCCCCA GTGTCACGCC AAGAGGGGTT ACTGCTCACG GGTACACACA G

SEO ID NO:183: (Length of Sequence = 444 Nucleotides)

CCAAGITGAC CCGCCGAACC ACCGACAGA AGAGTGAGIT CCTGAAAACT CTGAAGGATG ACCGGAATGG AGACTTCTCA
GAGAATAGAG ACTGTGACAA GCTGGAAGAT TTGGAGGACA ACAGCACACC TGAACCAAAG GAAAATGGGG AGGAAGGCTG
TCATCAAAAAT GGTCTTGCCC TCCCTGTAGT GGAAGAAGGG GAGGTTCTCT CACACTCTCT AGAAGCAGAG CACAGGTTAT
TGAAAGCTAT GGGTTGGCAG GAATATCCTG AAAATGATGA GAATTGCCTT CCCCTCACAG AGGATGAGCT CAAAGAGTTC
CACATGAAGA CAGAGCAGCT GAGAAGAAAT GGCTTTGGGA AGAATGGCTT CTTGCAGAGC CGCAGTTCCA GTCTGTTCTC
CCCTTGGAGA GCACTTGCAA GCAGAGTTTG AGGCTCAGCA CCGA

SEO ID NO:184: (Length of Sequence = 399 Nucleotides)

GGCAGAAAGA GGAAGGAGAC AGTGCCAGGA GGAAGAAGGA AGGAGTCCCT TAGCTCTCTT CATTGTCCCC TITTACTTCCT
GCTATCTTCT TCTCCTCTTC TTCTCTCTCT TGCCTNTATG CCTGTATTTC TGGCAATATG ACAGGCCTGC CTACCCAAGA
TCAGAACTCC AAAACCACTC CCACCCCTGA AGGTCGGGAG GGTCTTAGCA GCCCTGGGTG GCTGCCTGTG CTCAGGTCCT
CAGCTCCATG GGAAATAAAA ATGGCACCCT GAATCTCTAG GATTTTGTCA CTTTGGAGTC ACAGCAAAGT TCTCTTCCTC
TTGTCCCCCCC GTTTGCTGCT CCTTGGGTTA TAGGACATGG TAAATATTTA TTACTTTCAG GGAACCAGTA TTTTATTAG

SEO ID NO:185: (Length of Sequence = 263 Mucleotides)

CAGAGACACT GGCCCAGCTA TTTTCAGCAG GGACAGAGTC GAGGCTCACT GGGGATGGCT TCAGAGGACA CTGAGGCCCC TCTCAGGGGG GGCAAGGCAC AGATACCCCA AATTCCACCC CACGTCCCAA AGGTCTCCCA GCGGGGCTGT CCAGLCCALG TCAGCAGAAG GCTCTTGGGC GTGTGAGGGA GGGTCTTGGA GAACTAAGCG AAGGAGGCAA ACGCCAGGGC. CCCTTGCAGGCACC ATGTGCACCA CTT

SEO ID NO:186: (Length of Sequence = 343 Nucleotides)

GITCCAATAG CIGGITTIAT TCICAGCACA AAAGGGCCCT GIGIAAAAAC CAGAAGGATI TIGIAAAATA TCAAAATGAA
TATTIGGCCT GGAGGITGGA AAGIGAAGCA AGGCTGGACA TAGAAAAAAA CIGATCAGIA GITATICAGG ATATTATITA
GGATAAATGA AATAGGAACT TAGGGCCATC TCITACITIT CIACAGGTTC TIATCIGGGI CAATGAAGAA ATIGIGITIA
TCTIGCTGCC CTIGCATCAG GITTTITGCA CTAATGGAAA AAAGCCGGCC GAAAAACAAA ACCCAATCCT TTCAGICCIA
GCITTIACAT CTIGCCCTIG CAA

SEO ID NO:187: (Length of Sequence = 229 Nucleotides)

GGTGCGGCTC CACCCCTTCC ACGTCATCCG CATCAACAG ATGTTGTCCT GTGCTGGGCC TGACAGGCTN CAAACAGGCA TGCGAGGTGC CTTTGGAAAG CCCCAGGGCA CTGTGGCCAG GGTTCACATT GGCCAAGTTA TCATGTCCAT CCGCACCAAG CTGCAGAACA AGGAGCATGT GATTGAGGCC CTGCGCAGGG CCAAGTTCAA GTTTCCTGGC CGCCAGAAG

SEO ID NO:188: (Length of Sequence = 284 Nucleotides)

CCAGCAACTC AAATTCACCA CCTCGGACTC CTGCGACCGC ATCAAAGACG AATTTCAGCT ACTGCAAGCT CAGTACCACA
GCCTCAAGCT CGAWTGINAC AAGITGGCCA GTGAGAAGTC AGAGATGCAG CKTCACTATK TGATGIACTA CGAGAKGTCC
TACGGCTTGA CCATCGAGAT GCACAAACAG GCTGAGACCG TCAAAAGGCT GACGGGATTT GTGCCCAGGT CCTGCCCTAC
CTTTCCCCAAG GAGCACCAGC AGCAGGTTTT TGGGGGCCCAT TGAG

SEO ID NO:189: (Length of Sequence = 215 Nucleotides)

GGAAGGATGA GAAACAGATT TCTGCTCACT TCATGGGCTG RCCTRGRATT GACGATGGTR CAAACCCAAG ATTATCCTCA TGTAATTTAT GAAGATTATG GAACTGCAGC GCATGACATC GGGGACACCA CGAACAGAAG TAATGCAATC CCTTCCACAG ACGTCACTGA TACAACCGGT CGGGCACATC TCKCGGCCTA TGCTGCCGGT GGTGC

SEO ID NO:190: (Length of Sequence = 153 Nucleotides)

TITICATATEG AAAGAGCTAG TACAATCACA TATTIGAAAG GAGAAACAAT AGGTACTGAA CCGGAGGGAA AGGGCGAGGG TGAGTIGTGCC AGCACCGGCC TGGTGAATCC ACGATTCGGT TTCCCCATCCA AGGGTAAGTT TCCCCAAAATA CCG

SEO ID NO:191: (Length of Sequence = 316 Nucleotides)

GEATTTATAC ATTTATTTAT ATATGTATAT TTACTTCAGA NGAAACGAAC ATTTCGGGGA CAGGAAGCAA GCAGGCCCGG
GGCTGCTTCC CTCACTGCCC ACCTCAGAGT CAGAGTTGGC ACATGACAAA TACCAAGCTC AGGGTGAAGA ACTGGGAGT
AACTGGGAAG TAGGGKGCGC TCTATGCACA CGCAGGCTTC TAAGGGTGCA CGGTATGGGC AGKKGGTTTG CACTGGGAAG
CCCTATGTAC AGCTTGAAAG CTAGGGGTGA GATTAGCCCA GTGACTACAG GAACATACGT CAAAGTTGAG AGAAGA

SEQ ID NO:192: (Length of Sequence = 360 Nucleotides)

GIGGITTITG GITATATGCA GCITTIGACT AGCATGIAIT GIGICITTIT CICCICIAIG AATAATTITA TATTICAIGC
TACITCITGA AAGITTACTC TITGAIGCIC TAAGAGAACA GCCAGAIGGI TIATATGAAT AANCIITATC TGCAGGAIGGI
TGGATTGGIA AATNAGGAGA ATGITGITTG AGATATCAAG ATTIATGICT GGGAACTAAA ATATATAATG CCAAATGIGI
TITTIGICAAT TACIAGAGAA TICIGIGCAA ACATATCATC TCITCACATG CTGCACACIT TGCTTTTIGT TAAACAGCAG
GTAGTAGACA GACCAATACC AGTITCGCGI TAAGG

SEO ID NO:193: (Length of Sequence = 397 Nucleotides)

GAAAAGACCA AGGAGATGGT GAAGACAGCA GAAGCCCAGA AGCAGCAACT GAAGGAGGAG CAGGGGAGGT CAGCAAGGAA
CGGGAGAGTG GGGATGGAGA GGCTGAGGGA GACCAGAGNA CTGGAGGGTA CTATTTAGAA GAGGACACCC TCTCTGAAGG
TTCAGGTGTA GCGTCCCTGG AGGTTGACTG TGCCAAAGAG GGCAATCCTC ACTCTTCTGA GATGGAAGAG GTAGCCCCAC
AGCCACCTCA GCCAGAGGAG ATGGAGCCTG AGGGGCAGCC CAGTCCAGAC GGCTGTCTAT GCCCCTKTTC TCTTGGCCTG
GGTTGGCGTG GGGCATGCGT CTAGCTTTCA CTCTGGTTCA GGTCCAACAG GGTCCGTTCT GTGCCTTTGG TGCCCCCC

SEO ID NO:194: (Length of Sequence = 225 Nucleotides)

GATTATTIGGC TITTGCTTTCA TAACATGTAT TITTAAGTAT TTACTCTCTT AATGGCCCTC GTGTCTATTT TATACATCAT
ATCTCTTAAT TCTCTAGATG GAACACTGAA GGACAGGAAT TAAGTAAGTG ACTGGCCATG CAAGGGTTGG AAATTTTACT
GTATCCCTTC CTCRGTAGAA GTTATGTTAA ACATTCAAGC AACCACATAT CTAACAGAGG AGTTT

SEO ID NO:195: (Length of Sequence = 294 Nucleotides)

ATTACTAGAT ATTIGTATGT TAAATTATGT GGGTTTTCAA ATTIGTGGAG AATAAGTAAT AGTGACATTA GTTTAAGGAC
AGTGTTTCAT CAGGGCATTA TTITAATGAA TCTTATATTT AAATGTCTGT TTCAGGAATT CATGTGAATC TTTCTTTTTA
TAGAGGACCC ACAGGCATGA NITATTTACT CCTCCGGTGA TAGGTTCTCA CCCTGATGAA AGCGGAAGCA AATTCCAGGT
TAGAACATTA INCTAGTTAT GTAGGGGGGT ATAAAGTGTG TAAGTTTAAT ATTT

SEQ ID NO:196: (Length of Sequence = 233 Nucleotides)

TTATTITICI CIAAATITIA AAATAGAAGA CITTAATGGA AAACATITAG TACCATCATG TCAMCCIGAA TGCCAGCAAT
ACCICGACTI TIACACACGC AGGAAGCCIA GIAAAAGCCC CGICAGIAGI ACACATITICI CIAIGGICCI TCAACAGITI
TTCATATACA AAATITICIG CIATTITIGC TITTGCAAAC AGCAATAACT TITGGGITTC CCATATGACC ACC

SEO ID NO:197: (Length of Sequence = 230 Nucleotides)

AAGATATCTA CCTGGAGTAG CTGTGCAGCC CCGCCCTCTG CTTCCCCCAG CCCTCAGGCC AGTGCCAGGA CAGCTGGCTG CTGACAGGAT GTGGCACTGC TTGAGGAGGG GCACCTGCCA CCGCCAGAGG ACAAGGAAGT GGGGGCCCGCT GGCCAGGGTA GGGAAGGKTG GGGCAATGGG GAGAGGCAAA TGCAGTTTAT TGTAATATAT GGAATTAGAT TCATCTATGG

SEO ID NO:198: (Length of Sequence = 118 Nucleotides)

TTCTCCTGGG GAAAGGGCTG TTGCTGAAGT GGCCGGTTT TTTAAGCATC GACATTTGCA TCCAAAGGTT CAAGCAGCCG CCTCAGGTTC CARAGGCTTC CACCTGATGG CTGCACTT

SEO ID NO:199: (Length of Sequence = 268 Nucleotides)

TAAATGATGG AGTTAAATGA TGTTGTCAGT GCCTATTTAA AAAACTACTC TTCCCCTTCT CTATGAGTTC TACTTTGGTA
AATATTAATA TTTAACCAGT TAGTAAAACT AACACCACTA TTTCAATTCT CTTTTGTGCA TAGTAAGTAA ATTTTGCTTT
ACTTACTTTA TAAAAAAAATA CTTTACATTT TATAAAGCAG GTTTTAGAAA AACGGTTTAC AAGAAAGTTT GCCTCCATTT
CACTGCCAAT TTAAGCACAG GGGAAAAT

SEO ID NO:200: (Length of Sequence = 422 Nucleotides)

CCAGTGAGITT TGTGAAAAGC AACAGGGGTA NGACAGGTTC AAGGAAGGAC ACAGACAGTG CCCTGTTTTA CGTTCCAAAT TTCTTCTTTT TAATGGGTGG TGGGAGCTGA GCAATGATGT CATTTGGAAG GGGCAATGAC TTGTCAATNA TGCAGAACAT GTAGGCATCA TGGAGAAGGA TGTGCATCGG TCTCTTGGGA TGAAAACTGA TGTGTGTGAT AGGAGTATCC CTTTCAAGCC AAAGGIGGIC AAAGCCCIGC TICIGGACAG TCCGGCICCA ATCIGIATAC TGITTGICIG GGATGCIGIA CTCAAATACC
TGCIGGICCG AATGAGCGAT GACAAGGITG TITGGIATIG GGGGCAATAG CCATAGCAGT CACTIGGGAA ATTGIAAGCA
GGCACCGIGC AGTGAAGITT TA

SEO ID NO:201: (Length of Sequence = 273 Mucleotides)

ACTOCACGOT GATGAACCOG ACGTOCATIT CTOCAAGAAA TICCIGAACG TOTICATGAG TGGCCGCTCC CGCTCCICCA GIGCIGAGIC CITCGGGCIG TICTCCIGCA TCATCAACGG GGAGGAGCAG GAGCAGACCC ACCGGGCCAT ATTCAGGITT GIGCCTCGAC ACGAAGACGA ACTTIGAGCT GGAAGIGGAT GACCCTCIGC TAGIGGAGIC CAGGCCCCCA GACTACTIGT TAGGAGGGCT ACAACATGIG CACTGGGIGC CCG

SEQ ID NO:202: (Length of Sequence = 436 Nucleotides)

GGACTCCAAC CCCCCAGGAG GCCGAATGCT GAGCTTGGCA ATGGTGGCCT GGATGGAGCT GATGGGCACA TCCCCACCGA
GGACCAGGTC CTGGGAGTCC TGAGGAAGGT GGTTCTTCTG GCTGATGCTT GCACTGGCCA AGGGTTTGCA TGGAGGAGGC
ACACCATGGC GCTGCAGGAC CTGCTCCACG TGTCTCACCA CTGCCTCATA GCAGAACCTG AGGTGCAGCT TCTCCTGCAG
CATGTGCTTT CTCTGCTGCC GCATGCGCCG CACCAGCTGA GGCAGCTCAG GGATTCCKTT CCCAGCCTCC ACCTCCTGCA
CAGCTGCATA GAGCAGTGCA AAGGCTCCCG TGCGGCCCCAC ACCAGAGCTG CAGTGCACAA TGATGGGCGT TTGCAGGGGC
CGTGATGCAA GGTAATTTGC GTGCACCTCC TGGGTT

SEO ID NO:203: (Length of Sequence = 336 Nucleotides)

CTGCATGINI TGGGGACACT TACGCCAAGG CGCCGCGITC TCATTAGGAG CTGGGACCAG AAGTGAATAA GCCAGGITCC
TGTCTCAGGG AGCTCCATAG CAGGACTCAG AACCACACAC GGCCCTCTAG GCATTIKTGA AGCTCTGTGC TTCATTITIT
TTGCTTTGCC TCTAGTTTTG CCTTTGCAGT ACCAATGCAG CCAGCCCATG TKTCCCCTCT ATGTGGAATG TTAACGATAT
TCCCACTGTT TCTGGTGTCC TTTCTGTAAT CAGAGCTGCC GTGACCATTC CAGTTCAGGC ATCCTGGTGG CCTGGCTTTC
TCTGGGGCCAT AGAGCT

SEO ID NO:204: (Length of Sequence = 393 Nucleotides)

GEAATCAGAT GCTCAGGTGT CCAAGCAGGG ATAAGGACAG GCAAAATAAA TAACCCCCCA ACCCCCATCG TCACTCTGCT
GCAACACGAC ACAAAGGTTT AAAGATCTGG GCCCAAAGAC TCTGGGTCCC TTCAAGCAAG CTCAGGTGGA AGGAGGTTTC
CCCACCCCCC ACCAGGCCTG TTTGCCCCCAG GTTGCCCTAG GATGGAGGCA GTTCAGACCC TGGGTCACTG AAGCTGATAG
GAAGAACTNC GATATCAATG GCCTAAGCCT GCTGTNTGCC CAAGGGAGCC AAGGGCAAGA GCCAAAGGGC CAATTTAAAG
GACGTGGACC TGGGGGCCCA GAGGAGGCAC CACAGCCGAG GGGAGCCACG CCCTGGGCCG GCAGGGCACA TGG

SEO ID NO:205: (Length of Sequence = 390 Nucleotides)

GAGGAAGAGG ATGACCTGAG TGAGCTGCCA COCCTGGAGG ACATGGGACA ACCCCCGGCG GAGGAGGCTG AGCAGCCTGG
GGCCCTGGCC CGAGAGTTCC TTGCTGCCAT GGAGCCCGAG CCCGCCCCCAG CCCCGGCCCC AGAAGAGTGG CTGGACATTC
TGGGGAACGG GCTGTTGAGG AAGAAGACGC TGGTCCCAGG GCCGCCAGGT TCGAGCCGCC CGGTCAAGGG CCAGGTGGTC
ACCGTACATC TNCAGACGTC GCTGGAGAAT GGCACACGGG TGCAGGAGGA GCCGGAGCTG GTGTTCACTC TGGGTGACTG
TNACGTCATC CAGGCCCTGG TTCTCAGTGT CCCACTCATG GACGTNGGGG AGACGGCCAT GGTCACTTCT

SEO ID NO: 206: (Length of Sequence = 172 Nucleotides)

CTITACIGIG GGIGIGGGIG TCACTGICAC TGCCACAGCC ACINGGAGGG ACACACAGCT TTAACCCCTR TTTGCTTAGG
NGAAGGGIGG GGCATTCAG GGITATAAAA CTAACTATAT ACACAGAAGG TCCTAGGKAG AAAGCCACCC TGAGCACACA
TGTCTAGGCA CA

SEO ID NO:207: (Length of Sequence = 215 Nucleotides)

AAGGCAATTA GAAGATTAT TGAATATTGG TTAAAAGTAG ATTGACAATG ACATTAAAGA ATAAAGTGTA ATTTATTTGG TGCTACTTTG TGAATGCTTC CAAGTACAAA TCATCTCACA ATACCATATA CAACATACTT TCAATCACAA CTCAAATATA AAATAACCTA CAAAATCACA TTGCTATAAT CAATATACAA TAATTGTATT TTTAA

SEO ID NO:208: (Length of Sequence = 444 Nucleotides)

GGAGTICICI TGICCACGGA GAGCAGIGIT GCAGIGITATG GAAIGCIAAA TCTTACCCCA AAGGCCAAGC AGGCTCCAGG
TGGCCATGAG CIGAGTIGIG ACTICTGGGA ACTAATIGGG TIGGCCCCIG CIGGAGGAGC TGACAACCIG ATCAATGAGG
AGTCIGACGI TGATGICCAG CICAACAACA GACACATGAT GATCCGAGGA GAAAACATGI CCAAAATCCI AAAAGCACGA
TCCATGGICA CCAGGIGCIT TAGAGATCAC TICTITGATA GGGGGTACIA TGAAGITACI CCICCAACAT TAGIGCAAAC
ACAAGIAGAA GGIGGGIGCC ACACTCTICA AGCITTGACT ATTTIGGGGG AAGAGGCAIT TIGACTCAAT CCICTCAGIT
GIACTIGAGA CCITCCTCCC AGCCTGGGAG ATGITTITIG TATT

SEQ ID NO:209: (Length of Sequence = 338 Nucleotides)

GCAGATCACT TGAGGICAGG AGITCGAGAT CAGCCTATAT ATGCAAGTAC ACACACAGGC ACTCGCACGC ATGCATGCTC
ATGCAACACA CATGIACACT CTACATGTAC AGCTCACATA TGCATCCATA CACATGTGCA TGCTCACCCA TACACCAGCC
ACACACAAGT ACTCATACGC ATACATGGCC ACACACAAAG TACACACACG TACACCATAT GCATATGTAT GCACTCATAC
ACTCATACAT ATGTGCCCCC TCAGAGAAGT ACACAAGTGC ATGCGCATCA CACATGCATA CGTGCTCATG CATACACACG
GGACATTTCA TACACACG

SEO ID NO:210: (Length of Sequence = 371 Nucleotides)

GAGGAAGTAG AGCCINAGGA GGCTGAAGAA GGCATCTCTG AGCAACCCTG CCCAGCTTGA CACAGAGGTG GTGGAAGACT
CCTTGAGGCA AGCGTAAAAG TCAGCATGCT GCAAGGGGAC TGTAGATTTA ATGATGCGTT TTCAAGGGTA CACACCAAAA
CAATATGTCA ACTTCCCTTT GGCCTGCAGT TTGTACCAAA TCCTTAATTT TTCCTGAATG AGCAAGCTTC TCTTAAAAGA
TGCTCTCTAG TCATTTTGGG TCTCATGGCA GTAAGCCTCA TGTTATACTA AGGGGGAGTC TTCCAGGTGT GACAATCAGG
TTATTGGAAA AACAAAACGT GGTTTTGGGA TCTGTTTGGG AGACTGGGGA T

SEO ID NO:211: (Length of Sequence = 295 Nucleotides)

CCTCCCAACG TGTTGACATT ACAGGCGTGA GCACACGCAC CCAGCCCATC TAGCATAATG TTTTGCATAG TTGTCAGCAG ATAAATATTG AATGACAAAA CTCAGATGGA GGAAAAAGAA CAAAATAACC TAGTTCTCAG AAAGATTTAA TGAGCAAATG GGAAAATGTC AAAAAGATTT ACAGACAGGG GCATCTTAGA GTCACTGGAA TCACACAGGC CTTCCCTCAG CTTGAGGGGC TGCCTGGAGG TGGGGGTGGG GGTACACTC CTCAGTGGGG AGAGACTTGC CAAAT

SEO ID NO:212: (Length of Sequence = 370 Nucleotides)

TGGCCGATAT GAGGGGGGTG GGACTGGGCC CCGCGCTGCC CCCGCCGCCT CCCTATGTCA TTCTCGAGGA GGGGGGGATC CGCGCATACT TCACGCTCGG TGCTGAGTGT CCCGGCTGGG ATTYTACCAT CGAGTCGGG TATGGGGAGG CGCCCCCGCC ACGGAGAGCC TGGAAGCACT CCCCACTCCT GAGGCCTCGG GGGGAGCCT GGAAATCGAT TTTCAGGTTG TACAGTCGAG

CAGTITIGGI GGAAGAGGG GGCCCIAGAA ACCCIGIAGC GCAATGGGI TGGGCGCCCC AAAGGITAAG TITGAACCCG AAGAGCAAAG GAAGAGGCGA TCATCATAAG TGGAGGATTA GGATTAGGAT

SEO ID NO:213: (Length of Sequence = 302 Nucleotides)

ATCTIGUCIA TAATCIGCOG GCTAACACGG ATAACTCAGT ATAAGAACCA CCCAGTTGAT GTCTATTGIG GCTTTTTAAT
AGGAGGAGGA ATTGCACTGT ACTTGGGCTT GTATGCTGIG GGGAATTTCC TGCCCANTGA TGAGAGTATG TTTCAGCACA
GAGACGCCCT CAGGTCTCTT GACAGACCTC AATCAAGATC CCAACCGACT TTTTATCTGC TAAAAATGGG TAGCAGCAGT
GTATGGGAAT TTTCTCATAC AGAAGGGCAT CCCTCAAACC GGAAACCACA GAGATGCTAG GT

SEO ID NO:214: (Length of Sequence = 354 Nucleotides)

ATGGATGAGT GGGCACCCCG CACAGGGCTG CAGGGTGGAA AACGCTCGAC GGCCAGGTGG TGACTTGGGG GCAGAGAGCC CAGTGTINGTA GGGGAGGAGA GGTGGTGTCC CTGCTGCCTG GGAGCCAGCC TGCCTGTINCT GTGGGCAGAG CAAGGCACTT TCTGCTGCCG GTGCTTCCAG GGCCTAAGCA GCCGCTGCAC ACTCACCAGC GCAAGGCTCC TCTGCAGGGA ACGAGGGCTG CTACCCATTT CACAGATGAG GGCAAGCAAG GACTTGCCCA GGGTTGCCCA NAGCAAGTGC GTAACAGGCC CTGAGAAGAG NGCCAGTGAG CTCATCCTGA GTTAATTATG GGCT

SEO ID NO:215: (Length of Sequence = 260 Nucleotides)

TEGITCARAG TCIAGECCCT CITNAGASCT GECTGATTCA GCTTGCCARC AGTGACATCA GGGTGAGGCT TCCTCTGTCC
ACAGCATTAG CTGCGAATAT CCTCATGGTC ACAAGATGGC TGCCAGTGGC CGTCAGGGTG TGTGCTTCCT TGTTCACATC
CAGTGGAAGA GTGACAGCCT GCTCCCCTTA GCTCTCTGAC ACCANTGTGA AGGTGCCANG AACTTACTAG CAGGNCTTTC
CTCATGACCC ATTCAACAGG

SEO ID NO:216: (Length of Sequence = 232 Nucleotides)

SEO ID NO:218: (Length of Sequence = 219 Nucleotides)

CTGCAACCAT CCATACCTTT INCCCGTGGC TGCTATGGAG TCCCCCAAAC TCCCCAGTGG GGCTTATGAG GGTGGGGCAC
TTATTANGTN GTCTGGGAAG CTCATGCTGC TCCAGAAGAT GCTGCGAAGC TGAAAGGAGC AAGGACACCG AGTGCTCAAT
NTTCTCGCAG ATGACCAANA TGTTAGCCTT GCTTGAGGGC TTTCTTAGNC TATGAGGCT

SEQ ID NO:219: (Length of Sequence = 390 Nucleotides)

GATAGGIAGO AGAGACCAAG GOGCAGGGIG CITCAGATGA GCAAGAGAAC CCAGTOGAAC CAGATACCCC AGGIGGGCCG
GAGGGACCCC AGACCITCAG AGGCTGCCC TGGIGITCTC CACAGIGCAG TCCCTCTGIA TTCCCAGAGI GGGATCGGGG
CTTTCAGCCC ACCCTGATGC CIGCCCTCCA GGATGGCTGG TTTAGTCTGG GTCCATGTCC CAGACCCCTC TATTCTGCTC
CAGGACAGCA GGACTTCAGG TCTTTCCTGG GGGTGGATAT AGGAGAAAAT TTCTGCCTGG CACACACCTG GGCTCCAACC
ACTTGCCAAG TGATTCACTC TTAGGCCCAG GGGGAACACA ATGACTATCA TTACTGATGC AGACCTGGCT

SEO ID NO:220: (Length of Sequence = 382 Nucleotides)

TTTTTGTTTT GITTTAATAT TTTTGATATT CICTITGCAT TGAAATGGTA TAAATGAATC CATTTAAAAA GTGGTTAAGG
ATTTGTTTAG CIGGIGIGAT AATAATTTTT AAAGTIGCAC ATTGCCCAAG GCTTTTTTTG TGGGTTTTA TTGTTGTTTG
TACATTTGAA AAATATTCTT TGAATAACCT TGCAGTACTA TATTTCAATT TCTTTATAAAA TTTAAGTGCA TTTTAACTCA
TAATTGTACA CIATAATATA AGCCTAAGTT TTTATTCATA AGTTTTATTG ANGITCTGAT CGGTCCCCTT CAGAAATCTT
TTTATATTAT CCTTCAAGTT ACTTTCTTAT TTATATTGTA TGTGCATTTT ATCCATTAAT GT

SEO ID NO:221: (Length of Sequence = 314 Nucleotides)

GACTITIGGIT TATTIAAAAA ACAAGCCAAA AAAAAAAAAA AAAAACCCCA ACTITIATATA CAAAGTCAAA CTGAAACCAC
GGWTTATGGA AAGAGGCAAG AWTTATGGGT AACAGGGGAG AAGGCTGGGC CAGAGCCAAT ACCACATTCT GAACACAGGA
GCCACGGGAA AGAGGTGCTG GTTTCTTCTG GCAAGACCGG GGTGACTGGA ACGCAGTGGT CCTACTGGCA AACCCAGCCC
AACACTGAGC TCTTTCTAGC ATGGACTCCA TTCCCGTGAT TGGCCAAGGG AGACCCTTCC CCCAGGAGGC CTGT

SEO ID NO:222: (Length of Sequence = 342 Nucleotides)

TTCCTTCTCT GCGGCGCAC GTCGCNAGCA GCCTGCTTCG CCCCGTCGTC AACTTTGAGC TGGAGGAGAA GCAACTTTGG
CAGTGGCCGC GGGGTGGGAA TCCCGCTTCT CCTCGGCAGC AGTAGGCTCG CAAGTCGCTG GGGTTAGGTG GGGCAAGAGT
TTCGCCCGGCG CATCAGCGCT TGCTTCGGAC TGTTTGCAAC GTGTTTCCAG CGAGCTGGGA GCGGGGGTTG TGACTGCGAG
TCGTCTGGGG GAGGGGGACT TGTTTTTCTT TTCCTCTAGA GACCTCGGCT TTCAACTGGA TCAAACGTTG TCGAAAGGAT
GTAAATAGGC AAGAGCAAAC TG

SEO ID NO:223: (Length of Sequence = 376 Nucleotides)

GREATGECTE CCTTGAGGGG GACCATCATE TCGGAGACGC ATTGGTGCAG GTCTCACCCC ACAGCCCATE CCCAGCCTCC
TGCAGACTCA GGTCATCCAG CTGGTCGATG GCTCTTTGCA TACCTGGTGC CTTCTCCTCT CGGGCTTGGC AGGCTTCTC
GGGGGCTTCT CAGATGACTC TTTTGCCTTC TTCTCTGTCT TGGCTAACTC CTTGGCCAGC TCTGAACGTG CCTCCTTGGC
TCCCTCTTCT ACCACCTCCT CCCGTTTGGC CAACTTGCTC ACGGCCGTCT TGGTAGTGGC TTTGAGGCTC TCCTTGCTAT
CAGCCCGCTG TTTGATTTTG CTGGGCTTGA GGTTGGTAAG GCACAGCCCC AAGAAG

SEO ID NO:224: (Length of Sequence = 445 Nucleotides)

GTTGATAGAC ATTGCCATTG GGGTTGCTTC CACCITITGG CTGTCATGAA TAATATTGCT ATGAACACTA ATGTACAATT
CTTTGCCTGA ACGTAAATGT TTTCATTTCT CTTGGGTATT TATCTAGAAA TGAAATTGCT GTATGTTAAC CCTTTGTTTA
ACCTCTTGAG GAACTGGCAG ACTTTTCCAA AGCAGCTGCA CCATTTTAAA TTCTAACCAG CAGTGTTTGA GGGTTCCAAT
TTCTCTATAT CCTTGGTAAC ACTTGTTATC TGCCCTTTTG GTTAGAGACA TCCTAGTGAG TGTGAAGTGG CATCTCACTG
TGGTTTTGAT GTGCATTTCC CTGATAGCTA ATTGTGTGGA TCCCTTTTGC TTTTAGTGGA ATGAAATATC TGGTAGTCTC
GTATGCCCAAA CTAAAGCTAA AATTAAAATG ACTCTGCATG ATGGA

SEO ID NO:225: (Length of Sequence = 403 Nucleotides)

TECTOTOGGE ACAGITITECO GEGCAGOTOC TEGCCAGOTI COAGCCCAGA GIOCICAAGI COAGGGCACO TIGGGCCCAG

CGCAGGCAGA ATCCGAGGIG GIOCITGGCTC TACCCIGGGC CITCOTACTOC COAGCACCCC TEGAGGAGGC AGGGGCTCCC

CGCCGCCGAG GCTGCCTGCC CTAGGCCCAC CTCTGCATGC TGCCCATGGG GCCACCCTGC CTCCTGGGCC CTCACTCTGC

CTAGGGGAGC TGGGCCAGGC ACTAGCCTTT GCCCAGGGAG GTGGCCTAG GTGCCTGCAC CCCAGCCGGG

CTTCTCTGGG GCCTCCCCGT CGTCAAGCCT ATATCCTGTC TGTCCCCACC CCAGCTGTCC CTTGCCAGGG GACTGGCATA

AAA

SEO ID NO:226: (Length of Sequence = 440 Nucleotides)

GIGCCTTAAG GAGAGAGATT GIGTTCTTCC TCTCTCAGG GIGATAACTC AGGAAGCCTC TGGGTTGGGA AGACCATCAG
TTCTTTTGTC TTAGGTTTCT TTTCCTGTCC CTCTTCCATC CCCAAGATGT GACCCCATAA AAATTTTTCC TGAGTTGGCC
AGGCATGGTG GCTCACGCCT GIAATCCCAA CACTTTGGGA GGCTGAGGCG GGCGGATCAC GAGGTCAGGA GTTCGAGACC
AGCCTGACCA ACATGGTGAA AACCCCATCT CTACTAAGGA TACAAAAATT AGCCGGGTGT GGTGGCACAC ACCAGTAAGT
CCCAGCTGCT CAGGAGGCTG AGGCAGGAGA TTTGCTTGAA CCTGGGAGGC AGAGGTTGCA AGTTAGGCCG GGATTGCGCC
GTTTGTACTC CAGCCTGGGC AAGCAGAGCA AGACCATCTA

SEQ ID NO:227: (Length of Sequence = 426 Nucleotides)

GACCAAGAAG TICCGGITCG AGGAGCCCGI GGITCIGCCI GACCIGGACG ACCAGACAGA CCACCGGCAG TGGACTCAGC
AGCACCIGGA TGCCGCTGAC CIGCGCATGI YIGCCATGGC CCCCACACCG CCCCAGGGIG AGGITGACGC CGACIGCATG
GACGICAATG TCCGCCGGCCC TGATGGCTIC ACCCCGCTCA TGATCGCCTC CIGCAGCGG GGCGGCCTGG AGACCGGCCAA
CAGCCGAGGAA GAGGAGGACG CCCCTTTG CACCIGGCCG CCGITACITA CGCTCTGATG CCGCAAGGGC TCTTGAGGCC AGCGAAGATG
CCAACATCAG GCAACATGGG CCGAAC

SEO ID NO:228: (Length of Sequence = 278 Nucleotides)

CAGGACCAGG AGAAGATCCT GGAAGATGCA GTGGATGAGT GGACGGGCTT TAACAACAAG GTTAAAAAGG CCACTGAGAT
TGTTTTAGAA AACCAACAGC AAAACACTGA CAAGGTACAT AAATACAGAT TGGACATTTT AGGGTAAATT CACTGTATTT
CCTACTTGCT TGTAGGAAAC CGAGTAAAGT GGAAAAGCTG TCCTGATCAT ATGGCATGCA CACCAGACTG CAAAAGGNCG
TCCACACTAT TTAACAGGAC TGTGGCAAAA TAGCTTTA

SEO ID NO:229: (Length of Sequence = 425 Nucleotides)

TITITIGITCC CAAGCCTITG TGACTGACTI TAAATCCTCT CACCTGCAGA ACAGAGATGG CITCAAAGTG GGGAGTGAGG
GAGTGAGGCA GGACCCTGGG CTGAGACCTG TITITICTTCC ATTTCTGCTG TGGCTTCCCA CAGCTCCCTG GTTCCACACC
AGGCCCTGCT CTGCCGCAGA AAATGGATTC CCAGGCCACA GAGCTGTCAG GCCTTTGACT TTGCAGAGAC CAAGCACCCC
AGAGGCTGTG CGACAGGGCT AGTCCCTGGT GGGCCGGTCT GGGGCATGGG GGGCAGGGAG ACTKGGAGAT GGGGAGGGCG
TTGAGAAATCC GGGGGGGTCCT GGATACTTGA CAAATTGGCT CAGGTCTTAG CTYTGGYTGC CCCACTGATT GTGTTGCTTG
GCAAGGTGCA AGTYTTCGGC TGTTC

SEO ID NO:230: (Length of Sequence = 382 Nucleotides)

TTGGAGGATG TGCTGCCCCT CCTGCAGCAG GCCGACGAGC TGCACAGGGG TGATGAGCAA GGCAAGCGGG AGGGCTTCCA
GCTGCTGCTC AACAACAAGC TGGTGTATGG AAGCCGGCAG GACTTTCTCT GGCGCCTGGC CCGAGCCTAC AGTGACATGT
GTGAGCTCAC TGAGGAGGTG AGCCAGAAGA AGTCATATGC CCTAGATGGA AAAGAAGAAG CAGAGGCTGC TCTGGAGAAG
GGGGATGAGA GTTCTGACTG TCACCTGTGG TATGCGGTGC TTTGTGGTCA GCTGGCTGAG CATGAGAGCA TCCAGAGGCC
CATCCAGAGT KGCTTTAGCT TCAAAGGAGC ATKTTGACAA AGCCATTKCT CTTCAGCCAG GA

SEO ID NO:231: (Length of Sequence = 398 Nucleotides)

GAGGCTGGAG AATCGYTTGA ACCCAGGAGG CGGAGGTTGC AGTGAGCCGA GATGGCGCCA TTGCACTCCA GCCTGGGCCA GAGCAAGGTT CCTTCTCAAA AAACTTGGAA ATCTGTTGGG AAGTAGGGGG AGGGCAAGGT TAAAACCTAT GCAGGTGTGT CAATTAGACT TGTTCCAACT TGAGAACCTG AATTTTGCAT GTAATTGAAA TGTTCCAGAA CAAGTCTGGC AGTTTCATAA GGGAGTTTTT AGATGCCAAT ACATTGCAGA TAACCATATT GGTTACATTA GGGGAATGAG CATGGGATAG GTGCCTCCCA GTTGGTAGGA TAGCATGAGG AGGTTTCAAA AGTAACCSCT TTAAGGGTTA TGTCCAGTAT TTGCTAAGTA ACCAAGGT

SEO ID NO:232: (Length of Sequence = 272 Nucleotides)

GGGGCTGCAG ACTGAGTTAT TITATITTCGC TATTTCCAGT TTGAAGCTAC TATCATGGGC GITTAGAGTT ATACAAATGA
CACTTACAAA AAATAAAAGA CCAAGACACC CAGAGTGAGA TGCATGTTGG GGACGGGGGA GGCTGGCAGC AGGGGGGCCC
CGGCGGYTCA CCCCAGGGCT CCCGGAGGGG CGACGCCTGG CTTCATCCAC CCGGGAGGCC CAGGGAGCAC CAATCACAGC
AGGGGCTCTG GCCCAGGTGT CGGCAGCCCA GG

SEO ID NO:233: (Length of Sequence = 364 Nucleotides)

ATTITACAGT TITATITITA AATCATITAC ACATATICAT ACAAAGAAAA ATAAATITCA GGATGGAATC CTGGGGACCA
TGGTAGITTA AAAAAAAAAA TCTCTCTGAT CATTAGCTAC TAAAGACANG GCAAGAGGCT TAGCAGTCAT TTCTGGGGGT
TAGTGTATCT CCCCATGCAG GGGACAACTG NGAAGAATCC AAGCTGCTCC CTCATCTTCC TTCGATCTAG ATGGGGGAAG
GGGATTTTCC AATGCTCTCC CCTAGAAACA TTTCAAGAAG TACAGCAAAG GCTTATGGTA ACACTGGAAC CTATTTGCTA
GAAATCTGGC AAGATTGCAC TTTCTGAACC CAATTTTCCT ATAA

SEO ID NO:234: (Length of Sequence = 217 Nucleotides)

GGCCAGGAGC CAGAGGGCCC CGGGGCCACC CCTGCCGGGG AACGTGATGA CCAGAGTCCCA GACAGTGTCC CAGAGAGGCC GCGGCCCGCA GACCGGAGGC TCTGTCTGCC CTNCGTGGAC GCCTCGCCAC TCCCAGGGAG GACGGCCTGC CCGTCGCTGC AGGAGGCCAC GCGGCTCATC CAGGAGGAAT TTGCCTTCGA TGGCTACCTG GACAATG

SEO ID NO:235: (Length of Sequence = 221 Mucleotides)

AACTITAAAG TIAGGATTIT AAAATATIIG TAACIGGCIA AATTITAAAG ICGIGACAAA TAATTACITA GGITCAGAAA
TATACACACA CITACICITT AGCCAGITIC TITCAAGGIN TIACIGICCC ATCAGATATC TAGCCATTIK CCITIGCAAA
TIACATACCI TCITAAGAGI GIATITITAA GATTATTACT TATGCTITAT GATGATATAG T

SEO ID NO:236: (Length of Sequence = 221 Nucleotides)

ATAAATGGGT TTCTCACTCC TTAGGGACAC GATTGGAAAC AATACATCCC ATGAACACAG GTGAATGTCC CTGGTTATCC CTGAGCTGGG CAGTTTCACA CAATCANTTT TNCTCTGAGG CCAAAGTCTG TGGTTTGATC ATCTTAGCAG CTTCCAGAAC AGAAAGTAGG TTTACTTTGT CTCCAAANTC TNATTCTCGG TGCTCAAAGA AGAATGACCT G

SEQ ID NO:237: (Length of Sequence = 251 Nucleotides)

GACATCTITC TAAGATICIC TGTGGGAAAA TGACTGTCAA TANAATGCGG GTTTCTGGGC CATTCGTCTT ACTITCATTT
TTTGATTACA AATTTCTCTT GACGCACACA ATTATGTCTG CTAATCCTCT TCTTCCTAGA GAGAGAAACT GTGCTCCTTC
AGTGTTGCTG CCATAAAGGG GTTTTGGGAA TCGATTGTAA AAGTCCCAGG TTCTAAATTA ACTAAATGTG TACAGAAATG
AACGTGTAAG T

SEO ID NO:238: (Length of Sequence = 327 Nucleotides)

 TGACCCCACT GICCCCATAT ACAAGGGITK GGGGGCAAGA GCATGIGGCT ACICCCAGCA AGGGRAAAAT GGGAGGAGCA

SEO ID NO:239: (Length of Sequence = 285 Nucleotides)

ATTATTAGIT TATGGIGCTT TAAACCIATC AAAATAGITG TAAGIAAATG GATTICTIGI NCICCCAATA ACAATICTCT
GAGCIAGGAT AGAIGICTT CIGGCCATIT TACAGGIGAT GACACIGACA TAGGGACIGA GIGGGIAGCT TAAGINCCAT
GGITACCAGG AGCAGGACCN ACGITICCTG NCICCCAGIC TCATCCIGIT TICCACIGAC CAGGITGGIT GCICCCTIGG
AAAGCAGICC CIGAGAGTIG ACTITAGAAGT TCAGGGRAAA GAGGT

SEO ID NO:240: (Length of Sequence = 349 Nucleotides)

TTTTGCCATG TTGGACAGGC TGATCTCAAA CTCCTGGCCT CAAATRATCT GCCCAGCTTG CMCTCCCAAA GYGCTGGGAT
TACAGATRTG AGCCACTGCA CCCAGCCTGA CATGCCATAG TTTCAGCATT TTCTTGGGCA ATGATCCAAG CTGAAGGCTG
GTCTGAGGGA TCTSAAGAAG CGTATGAGTT GGAAGAGAGG GACAGAAAGG AAGAAGACAT GTGAAGAGAG AAAAGGAAGG
AAGCTAGCAG AGGAATGCCC TCCAATAGAG ACTGCTGCCT GAAGCTCAGC CCCTCTGAAG ATAGGTAGGC CAGGCTGGCT
TAGCTGAGGC AGTGGGTTAG ACCAGCCCT

SEO ID 10:241: (Length of Sequence = 233 Nucleotides)

GIGCAGCGGI CIGCCTICAT CITITAATGG COGGIGCGGI ACAGTTAGIG GACAGACGG GGATGGGACA CAGCAGGGGI GAAACAGGGC AGTCACAGCC GGGGCCGGGG ATCIGGAAGC GGGGGGGGIC CTCCCCCTGG AAACACCGIN TCIGGAAGGA CACCCTTAGG ATCCCCTGAC CTCARGGIGC CACCCACAG GGCCTGGIGT TCIGGGAGGC CCGGCTKGAG TGA

SEO ID NO:242: (Length of Sequence = 372 Nucleotides)

ATATGIACIA CATTIGGIGG AATACGCATG TACAATTCIT CAAAAATAGI AAAGAGCAAA ACAAACAAAA AATAGIAGAA GCACTGGAGA AATACACTAT GGCATAAACI AGITACGGGI GGGATGICAC ATGGACCATA TCIACACTCI GIGGCAACCT TCTTACCTGA CTCCAAAGGA TCAGATAATC AAACAGGAAA TTATGGIAGG AAATCAGAAA ATTGAAGIAT GCATTCATAT CCTAAGCATT TTATTTTAGC TCAAAATATA AAAATATTCA TCAGTTAGCC AAGCTTTTGN GATGAGAGAT CATAGCCTCC TCTTTGATAG GGGGTTTCTT GGGTTTCCTT GATTTCATGT TTCAGAGTTT TT

SEO ID NO:243: (Length of Sequence = 256 Nucleotides)

CTCACACATT CATACCCAAG GAAGAGGCAA ACACACTCAA GTCCAGAGTT CCCAGTGGTG CCGCCCAGAC CTACTGTCCC
GGGGGTGTTA TGGCTGTCCC TCGGCTTCCC CAGAGCAGCC AGGACAGCCT GCACCGNCTN CCAGACTCTC GCAGGAAGGG
GAGCTCTGCC CTGGGGAGGA AACTNACAGG CTGGGAGACA AGACTCCCAT CGCAGGGACA TGCACAGCAG CAGCCACAGC
CCCGCGGACG GGGCAT

SEO ID NO:244: (Length of Sequence = 220 Nucleotides)

CAAATGGCAG TICTCGAGAA TCGACGAGGA ACTTAAATCT GGACTCAGGG TITCAGTGGG GTCTCCGACT CCCACCACCC CGCCCCTCCG NCTGTCTCGC CGCCAGGNGT GACCTCCACG CGAAGGAATC TTCTTCGGAT GGGTGCACCT TGCCAANAGG TGTGGCCACCT GGNGGACTAG GAGGCGCCTC CANACTAAGG GCGCTCANTG CGGCGTTCTT

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SEQ ID NO:245: (Length of Sequence = 239 Nucleotides)

TREATGCTCA TGTAACCTTC TTAATAGTGC CTTGTCTGCT GGGTTTGTAG CTGTAAGAGT TCTGCAAACT GGCCCTATAA
AAATATTGAT GCTGTCCATT AAAATGAATC TCTCTCTCTC ACTCAGTCTC TCTCTCTGTC TGTCTCTCTT TCTTCTCTCT
CCTGCCCATGT GTGTGTCTCT CTCTACTCCT CTGATTTTGN CCTCTCTCTC TATTCTGCTA CTCTCTCTCC TCTCCTCCG

SEO ID NO:246: (Length of Sequence = 269 Nucleotides)

GGTTTCACCA GCGTTTAATG TGCTCTGATG TTGACCGTCC CTCTNAGTNT TCTGGGGAGG AGGGGGTGGG GCGGAGGGTC
AGGAAAGCAG GCTCAGCTTC CAGGGTCAGG GAGTTGTGGG CCCAGAGGGG CTGTCACAGT GGATGCACCC TGCCCCCTCC
CTCGCCAGAC CCGAGGGTAG GGCAGAGGCA CCTCCTCGNC AGCCTNTGGG CTGCACCCAC AGGGAATNGA GGGGAGGGGC
ACCATTACCA CTGGACCCAC CAAAGACCC

SEQ ID NO:247: (Length of Sequence = 297 Nucleotides)

CTATTCAAAG TITACTGACC TCCCCAGCCA GGCAGGCCAA CCCTTCCGAG CAGGGGAAAT GTCCATCTAG CTGCCCTCTG
CTGGTTGCA GCCTATGCCA TGAGAGGGTA CTGGAAGGAG GAGGGAGCCC TGGCTAGGGC AGGCCTTAAA CGCAAGGGAA
GCTGAGCAGA GATCTGCACA CTCAACCCCA TITGATATTC TTCTCCTCCT CAGTCATGGC CAGCGTGTTG GTGACTAGAC
CGGTGCCCAAT AGTCCGGTTG CCATCTCGCA GGGTGAAAAG ATGGCCTTTC TCTTAAG

SEO ID NO:248: (Length of Sequence = 281 Nucleotides)

ACAACAAGCA CACCAACTAT ACCATGGAGC ACATCCGCGT GGGCTGGGAG CAGCTGCTCA CCACCATTGC CCGCACCATC

AACGAGGTGG AGAACCAGAT CCTCACCCGC GACGCCAAGG GCATCAGCCA GGAGCAGATG CAGGAGTTCC GGGCGTCCTT

CAACCACTTC GACAAGGATC ATGGCGGGGC GCTGGGGCCC GAGGAGTTCA AGGCCTGCCT CATCAGCCTG GGCTACGACG

TGGAGANCGA CCGCCAGGGT GAGGNCGAAG TTCAACCGCA T

SEO ID NO:249: (Length of Sequence = 383 Mucleotides)

AGGECATOCA CACOGGGGAG OGGCCCTACO COTGCTCCTA CTGTGGCAGG AGCTTCCGCT ACAAACAGAC ACTCAAGGNC CACCTCCGTT CAGGCCACAA TGGAGGCTGT GGGGGTGATA GTGACCCATC AGGTCAGCCA CCCAACCCAC CAGGTCCCCT CATAACTGGG CTTGAAACTT CTGGCCTGGG TGTCAACACT GAAGGTCTAG AGACCAACCA GTGGTATTGG GGAAGGGAGT CGAGGGGGAG TTTTGTAAAT CCAAATCTCT GTGGTTTCAT GCTTTGTATA TGCTCACAGC AGGCCACAAT AATCCAAGAG AAGGTCTGTG AGCCCCAATC CAACACCCAC AGTAATTATA ATCTTGGCAC ATCAATGGAA TTT

SEO ID NO:250: (Length of Sequence = 397 Nucleotides)

GIATCCIACE TIACAACAAT AATATCATCE GAGAAATAGA AATAGCCTAG TITECTICCA ATAGAAACTE CITITAACAT
GGGCTGIATA TAAAAATATT AAAGAGAAAC AAAACTGIAC ATTTCCTCAT TECTCCCCTA CAGACAACCC ATGTCATAAC
CITGITGCAA ATATTTTTCT CCTATAGCAG TAAGTACAGC ATTAGAAGGT GATTAGAGAG TCTGITGATG AAACACAAAT
GIATGITTTT ATTGATTTTT ACTTTAGAAC ACTACAGAGT TCCTGGGACC GGGGTGAANG GCATTTAGCT GGGGTGGTTT
GTGTGGGGGT TAAATACCTT CCCACTTGCA AGTGACTTGC CTGTNCCCGC TGCGGGAATC CTGTTNCTTG GGTGGGA

SEO ID NO:251: (Length of Sequence = 276 Nucleotides)

GGCCATAAAA GAAAGAGCCT GTTACCTATC CATAAACCCC CAAAAGGATG AGACGCTAGA GACAGAGAAA GCTCAGTACT
ACCTGCCTGA TGGCAGCACC ATTGAGATTG GTCCTNCCCG ATTCCGGCNC CCTGAGTTGC TCTTCAGGNC NGATTTGATT
GGAGAGGNGA GTNAAGGCAT CCACGAGGTC CTGGTGTTCG CCATTCAGAA GTCANGACAT GGACCTGCGG CGCACGCTTT
TCTCTAACAT TGTCCTCTCA GGGAGGGNTC TACCCT

SEO ID NO:252: (Length of Sequence = 314 Nucleotides)

CCTGAACAGT CTGTTCATT TGACTGTTTG GGGGTCTCCC AGTTTAAGCA AGATATTTAA GCCTTATTTC TCTTGGCATG
CTTGGATTCC CCAGTAAAAA AAACTCCTGC CCTGGGCTGA CAATCAAAGT TCTGGGAACT AATATGGATA AGCAAGCTGG
AAATGGAGAA GGCTATTCAC TGTGCCTGGG TCCTACTGTT TTCTGGNTGG GAACTGCTTT TCCATTAGGC CTGGTGTGCC
CTGGAAGGGA NGAGCCTCTT GCAGAGACTA CAATCTTGGA TGGGTCCTTT GCCAAGTTTG AAGGTAGGAA CCCA

SEQ ID NO:253: (Length of Sequence = 293 Nucleotides)

GAACACTCTG CTCCAGCCAA GGTGGTGAGG GCAGCTGTTC CTAAACAGCG CAAAGGCAGC AAGCCACAGT CCCACAAGCC
TCAGCCTACC CGTAAACTGC CACCCAAGAA GGACATGAAG GAACAGGAGA AAGGAGAAGG GAGTGATAGT AAGGAGAGTC
CAAAAACCAA ATCAGATGAA TCAGGGGAGG AAAAGAATGG AGATGAGGAT TGCCAGCGAG GCGGGCAGTA GAAGAAAGGA
AACAANCACA AGTGGGTTCC ATTACAAATA GACATGAAGC CTGAAGTGCC CAG

SEQ ID NO:254: (Length of Sequence = 413 Nucleotides)

CTITITCTIA ATATATAAT ATTIACCAAG GCAAGACAGT GATTIATGGA CATTIAAATT AGITIAGCIT TGITCIGCIG
TTCTAAAACA TIGIGIACIG TCTGATAGAC TTITAAAAAA CAGIGCTITT CCAGGATGAT TTATGATATIG CAGIATIGIT
TATAGATGCC CATGGCTIAA CCTTGAAAAG TCAATTAAGT GACACAATTA AGAGAGATAT GAATAGIGGT AGAAAAAGCA
TGIACTCTGG ATAAGIGGGG GIAAATCIAG TATTIGITAT TCCTGTCAGT AATATTGTCA NTAGIATTIT TIAGAAGGIT
TAATTTFITT ATGGGTTATA AATTCATGTC ACTCTTCTGC AATGGGTACC ATCAGIGGGA ATGCNGGAAT TATCCATGCT
TTGGGGGGTTA AAA

SEQ ID NO:255: (Length of Sequence = 376 Nucleotides)

GGGTCCAGGG GAGAATCAAT ATATCIAGIA TAGITTATAT TIGIACCITC TCICCITIAAG AGITACAGIG AGIGACTCIA
CTCCTCAAAT GGAGCACCTC TCTCCAGGAG AGIAAGAAGA TCACATAAAT AGAAAGIGAG CITIGGACTC TAACAGACAT
AGGITCATAT TCAACTCIGC TACITAATAT CCATATIGGT TIGAGITATT TAACCTIGAC AATCCACACT GIAAAATGGG
TAAATAATAA ATACCCTCCT CTCAGAAGIG TTACAAAGIT TATATGAAAT AATGIGCTTA AAAAGCTGGG TACATAGIAG
GAGCTTAGIC ATTGITTATT TTCTCCCTCA TACCCATACA TCNITCATIC CTACTG

SEO ID NO:256: (Length of Sequence = 241 Nucleotides)

GIAGAGATGG GCTCACTATK TIGCCCAGGC TGGICCIGAA CICCIGAGGI AGGAGGATCG CITGAGCCIG GGAGACAGAG GITGCAGTGA GCCGAGATCA CGCCACTGCA CICCIGCCIG GGIGACACAG TGAGACTCIG TCTTAAACAA AACAAAACAA AAAAAGGCCA GGCGCAGGGG CTCACACCTG GTAATCCCAG CACTITGGGA GGCCAAGGTG GGTGGATCAC CTGAGGTCAG

SEO ID NO:257: (Length of Sequence = 406 Nucleotides)

CAAGGGTGTC CTTCGCCAGA TCACTGTTAA TGATTTGCCT GTGGGACGCT CCGTGGATGA GGCTCTGCGG CTGGTCCGAT
TAAGAAAACC AAGAGAGGCC GGGCACGGTG ACTCACGCCT GTAATCCCAG CACTTTGGGA GGCCGAGGTG GCGGATCATG
AGGTCAGGAG ATTGAGACCA TCCTGGCTAA CACAGTGAAA CCCCGTCTCT ACTAAAAATA CAAAAAAATT AGCTGGGCAT
GGTGGCACGC GATTGTAGTC CCAGCTACTA GAGAGGCTAA GGCAGGTGAA TCGCTTGAAT CCAGGAGGTG GGGTTTCAA
TGAGACCCAG ATTGTACCAC TGCACTCCAG CCTGGGGCAA CAGAGTANGA CTTCGTAACC CCCCAACCAAC CCNCCAACCC
CCCGCC

SEO ID NO:258: (Length of Sequence = 157 Nucleutides)

SEO ID NO:259: (Length of Sequence = 361 Nucleotides)

AAGCAGATAT AAATGGGACC ACTGIGAATC AAAGGGGAAA AATTCCAGGA AAAAAAAATT CCAATAGCTT CACAGTTTAA
CTGAGGTTTT GGAAAAACTT AAGIGAATTC AGCTGATGTT TGAAATATCT GTCTACATTT AATTAGATGT GTTGTATTTA
CCAAGGAGGC ACAAATATGT AGTTCTGTAG ATTTTAATAC TAACTTTTCC AGTAAGAAAA ATAATACCAG GTGATTTCAA
AAAGGGCAGT GATCTATAAA CACTCAAAAT GCATCTTTGA ACAGGGGAGC AGAAATAGCT AATTTAATGA AAACAAACCT
TAAGCACTTT ACTTGGCTTC TAATAAGGCA TCCCAAGAAA A

SEO ID NO:260: (Length of Sequence = 349 Nucleotides)

CAATACATGT ATACAGTGTA CACTGATCAA ATAAGAGTAA TTAGCATATT TATCACCTCA TTTCTTTTGT GGTGAGAACA
TTTAAAATCC TTTCTTTTTG CTATTTTGAA ATATACAGTA CATTGCTATT AAGTATAGTC ATCTGGCTGT GCAATAAAAC
ACCAGNACTT ACCCCTCCTG TCTGTGACTT TGTACCCTGT TCACCACCCC TCCAATCCTC TAGTAACTAC CATTCTACTC
TCTACTTCTA TGAGCCTGAC TTTTTAAAAT TCCACATGTA AGTGAGATTA CATGGTATTA TTCTCTCNGT GGCTGGCTTA
TTTCACTTTA ACATAATGTC CTCTAAATT

SEO ID NO:261: (Length of Sequence = 415 Nucleotides)

GGAAGATGAG GATCTAGGTG TGAGCGTGCA GAGCCCTGAG GCTGGGCAGG CAGGGAGCTC TGCCTGCACA ATGATGTAGC CATGTGTGGC CACACCAGCA CTGGGCAGCA CCTCTGGGGA GGGGGGCCAGG GCAAGGACAA CTGGAGAGAC AAAGCCAGGAT GGGGCCACGT CCTTAGAAGT GTGTGTGTGT GTGTGTGTGT GTGTAATACG CAGGGCAGAA ACACACCATG TAGGTCAGGC AGGACAGAAA CACATCATGT AGGCCAGGCG TGGTGGCTCA GGCCTGTAAT GCCAGCACTT AGGNAGGCCA AAGTGGGCGG ATCACCTGAG GTCAGGAGTT CGAGACCAGC CTGGCCAACA TTGCAAAACC TCATCTCTAC TAAAATTCTA AAATTAGCCA GGCGT

SEO ID NO:262: (Length of Sequence = 382 Nucleotides)

GECATGGGT CIGGCTTTAA TGIGIAACTG ACGIGGGTCA CIGAAACTGT TCAGGCTGAT CITGAACTCC TAGGCTCAAG
TGATCCIGCT GCCTIGGCCT CCCAAAGTGC TGGAATTACA GGAATGAGTC ACAGCACCCA GCCGGCTGIG TTTIGITTIT
TGITTTTTAC CCCGACAGGI NCTCAGTCAG TCGITAGCTG GAGTGAAGTG GCGTAACACA GCTCACTGCA GCCTTGATCT
CCTGGGCTCA AGTGATCCTT CCATTTCTTC CTTCCAGAGT AACTGGTACT GCAGGCCCAC GGCACCACAC ATGGCTAATT
TTTAAATTTC GTAGAGACGA GGTCTTGCCA TGTTTGCTCA GGCTCCAGCT GTTGTATTCT TT

SEO ID NO:263: (Length of Sequence = 447 Nucleotides)

TGTATCAACT CAGAATTTCC AGAGAGCTCT TCCTGGCTGA AAAGATGTCC AAGGATCATC TCCGGAATGG AAGAGGTGAG
GCCTGTTAGC TTGTGGGCTG CCCAATCCAT CCAACCCTTG GCATTGGGAT CAATGTTGAT GAGGACAAGA CCTTCAACAG
TGTCCGGGTG GTTAAGAGCA TATCTCGCCA GGATGTAGGC TCCAGCTCCA ACACCAACTC CAATTATTGT AGAGAAATTT
AGGTACTGCA GGACGCAAGG GATCATGTCT GCAAGCTGGT CCAGAGATGG GTACTGATAT CCCAAAGGGA ACACAGGGC
TCCCTCTTCC ATTCCAGGGG CATCCACATG GACCCGCACA AAGTTCTGAA TGATTTCCTG CATGTCCTCG AACTKGAACA
GTGGCTGGAG GAAAGATTTA TAGTTGAGTC CACATCGGGT AGGTAAG

SEU ID NO:264: (Length of Sequence = 317 Nucleotides)

TTTTCGCTGT CAACAGACAG TTTATTCTAT ATACAAACAC AATTTTGTAC ACTGCAATTA AATAGAATGG AATGAGCGCT
CCTCCGCATT CCTCCCCGAG TGACTGGTTT GGCCGCCGGC CACTCCATCC CCGAGTGGGA CTGGACCACG GCCCTGGNTG
CTGCCACTGA TGTTGGNGCC TGCACCCCAC GTCCCTATGC CCGAGGCGCA ANTCTGCTCT CCCGGGGACC CCAAGNCTGG
NGCACACGCG GGGAGGGCGG GGCCATGGAG AAGGCACTGC AGGGAGCACC AGGCAGAGCC GTGTTGAGGC CGGCCGG

SEO ID NO:265: (Length of Sequence = 270 Nucleotides)

GCAGAGCAGG TEGAAGTGAT CAGGAACCAT AGTTGACAGT TCCAATCAGT AGCTTAAGAA AAAACCGTGT TTGTCTCTTC
TEGAATGGTT AGAAGTGAGG GAGTTTGCCC CGTTCTGTTT GTAGAGTCTC ATAGTTGGAC TTTCTAGCAT ATATGTGTCC
ATTTCCTTAT GCTGTAAAAG CAAGTCCTGC AACCAAACTC CCATCAGCCC AATCCCTGAT CCCTGATCCC TTCCACCTGC
TCTGCTGATG ACCCCCCCAG CTTCACTTCT

SEO ID NO:266: (Length of Sequence = 297 Nucleotides)

ATGAGGGGAG GCCTGCGAAG TGGCTGGCAT GCAGCAGGTG CTAATGAGTG TTGCAAAGGT GATGTCACGC AGGCAGCTTC CCGTGGCCAG AGAAACATTG CAGAGAAGGG ATAAGTAGGG CTTAGTGACT TTGACGGGTC AATGGAAGAA TGACCCAAAG AAGGCTTCAA GGCCAGGCCT GCAGTTCTCC ACCACAAAGG CCCTCACTGA TAGCACCCAC TCCCCCACAC TCAGCTTTMG GGCCTAGGTC TGGGTCACCC AGCTAGAAGC CACAGGACCC TGAGGCTCC GAGGGGT

SEO ID NO:267: (Length of Sequence = 387 Nucleotides)

CTTGTTTCA TCATGAGCTC GATCAGATGT CTCTCGATCT TCAGACTGGT GGTGTCCTAT AATGTCCTGT GCACGCATTC
TTGAGCTTTC CAGGATTTCT GTCTGTTCTC TCTGTTTATC TACAGAAGAA ACTTTCTCCT TGAGTTCCTG TCTTCTGTGA
CGCCTTGAAC TCTCTTTCCT TTCTGGTTTA CGATCCTCCT CTTTCCATCT ACCCTGTCTG TCTTCTGTGA GGTGCGAGGG
ACTAAGAGAA CGAGATTCTT GAGGTCGTAC AACTTGGCTC AAGAGTCTGT GTTTTTTCAT TTNTNATCAT CTCCACTGTT
GTAGGCATCA CTGTCCGGAG AATGTTCACG CCGGCGCTTT CGGGGGACTG TCTAGGGCTG GGACTCC

SEO ID NO:268: (Length of Sequence = 318 Nucleotides)

CCTGAAGGIT ACCTCTITGG AGAGAACATG GATCTGAACT TCCTGGGCAG CCGCCCGGTC CAGITTCCCT ACGTCACTCC
TGCCCCCCAC GAGCCCGTGA AGACGCCTGCG GAGCTGGTGA ACATCCGCAA AGACTCCCTG CGGCTGGTGA GGTACAAAGA
CGATGCCGAC AGCCCCACCG AGGACGGCGA CAAGCCCCGG GTGCTCTACA GCCTGGAGTT CACCTTCGAC GCCGATGCCC
GCGTGGCCAT CACCATCTAC TTCCAGGCAT CGGAGGAGTT CCTGAACGGC AGGCAGTAT ACAGCCCCAA GAGCCCCT

SEO ID NO:269: (Length of Sequence = 422 Nucleotides)

ACATGICIAT TCAGGICITT TGCCCATTTI GAAATAGCAT TGCTTGTTCT TTTGCTGGAT ATTAACCCCT TGTCAGGIGC ACAGTTTGCA AGTTACCTT TCTCATCCTA TAGGTTATCT CCTCACTCTT GATTGTTTCT GTTGCTGTGC AGTAGCTTTT AAGTTTGGIG TAATACCATT GTGTTTTCTC TGCTGCCCTT TTAAGTTTCA CTGGGTCAAA AGTTTAAAAT TTGTGAATTCCTATATTTTTT AGGGCAATTC TCCTGCCACT GTTGGAATTA TGCCTCAATC TATGCAGTAG AATATTAGTG TGAAATGCTTCTGTACCAAT GGAGTGATG CTGGATGGTC TCTATCATAA ACCCATACCT CATCAACACA AACTGCAATT ACACAAGGGC

SEO ID NO:270: (Length of Sequence = 376 Nucleotides)

CAGAGAGAC CCAGACCTAG GGGAGTATGA TCCACTTACC CAGGCTGACA STORMAGAG CGAAGACGAT CTGGTGCTTA.

ACCTGCAGAA GAATGGAGGG GTCAAAAATG GGAAGAGTCC TTTGGGAGAA GCGCCAGAAC CCGACTCAGA TRCTGAGGTT

GCAGAGGCTG CAAAGCACAT CTTTCAGAAG TCACCACGGA GGGCTACCCC TCAGAACCCC TTNGGGGCCT GGAACAGAAG

GOGGCCTCCT CCCTGGTGTC ATATGTGCGC ACGTCTGTCT TCCTGCTTGA CTTTGGGGAT CTCGATGATC CTGGTGCTCC
TGTGTGCTTT CCTGATCCCC TGTCCTCCCA GAGATCTTGA CAGAACTGGA GCCGCA

SEO ID NO:271: (Length of Sequence = 346 Nucleotides)

TGITCACGIT CCCTITCITI GICTITCITI TICCIATCIT TATCIATACI TOGACTCCIC TCCTITITCC TCTCTTGITC
TTIAGCCICA CCTITATGCT TATGACTGIN CCCACIAAGA TITCCACGIT GATCATCAAT TITACGNCTA TCTCGACTCC
TACTGCGACT GCCACGATTG GITCGTCTAT CCCTTGAGCG ACTTCTACGA ATGCTTATGA AAAAGAATCA AGTTGGNCAC
CAAATGTTTC ATAGCAGTAG GAAATTTCTT TTAGAGACTT CTGATGCGAA ATTTGAAGTG TATGTTGCTA TCAGATCAAG
TGCAGGAGAG GTATAAGGCT ACTGGA

SEO ID NO:272: (Length of Sequence = 394 Nucleotides)

GUITITITIE TIGAGICEGA GICTOGCACT GITGCCIGGG CIGGAGIGCA ATGGIGCAAT CICGGCICAC TGIAACCICC
GCCICCCAGG TICAAGCCAT TCTCTIGCTT CAGCCICCIA GIAGCTGGGA TIACAGGCAC CIGCCAGCAC ACCIGGCTAA
TTTTTTATAT TITNAGIACA GACAGGGITT CACTATGITG GCCAGGCTGG NCTIGAACTC CIGACCTIGT GATCIGCCCA
CCTCAGCCIN CCAAAGITTT TCAGAATTTT TTAAGGAAAC ACTITTAACC CITAAGGCTT TCTTTCAAAC TCAGATCCCC
TTACACAATT GATCAGACGI GGCAAAGITT TGCTTCAAAG TTTTTGGACT GGGTTTCCAC TTTAGGCTTA CIGA

SEO ID NO:273: (Length of Sequence = 259 Nucleotides)

CAACCTGTAC CCAGGCTGCG AGAACGTRAG TITRAGGAGC CGCAGCATGA TGTTCGAGCC GGGTCTTACC AAAGGRATGC
TGGAGGTGTT TKTGGCCCCG ACCCACCACC CGCACTGCTC GGCCGATGAC CAGTCCACCA AGGSCATCGA CATCCAGAAC
GCTTATTTRA ATGGAGTTGG CGATTTCAGC GTGTGGGAGT TCTCTGGAAA TCCTGTGTAT TTCTGCTGTW ATRACTATTT
TGCTGCAAAT AATCCCACG

SEO ID NO:274: (Length of Sequence =348 Mucleotides)

TCCCAGTIGT CCCGATIGTA ACTCAAAGGG TGGAATATCA AGGICGITIT TITCATTCCA TGIGCCCAGI TAATCITGCT
TTCTTTGTTT GGCTGGGATA GAGGGGICAA GITATTAATT TCTTCACACC TACCCTCCTT TTTTTCCCTA TCACTGAAGC
TTTTTTAGTGC ATTAGTGGGG AGGAGGGTGG GGAGACATAA CCACTGCTTC CATTTAATGG GGTGCACCTG TCCAATAGGC
GTAGTATCCG GACAGAGCAC GTTTGCAGAA GGGGGACTCT TCTTCCAGGT AGCTGAAAGG GGGAAGACCT GACGTACTCT
GGGTTAGGTT AGGACTTGCC CTCGTGGT

SEO ID NO:275: (Length of Sequence = 396 Nucleotides)

GITTGGTGAA TITTGGTCTGT GATAAAATTG GAGTTCAAGA AACAAACAGG AAACTACAAG TGCCCCTTCG CCCCCAGGTC ACCGGAGTGG CAGGGCAGTG ACCGCTGCTC TCAGGCTGCC CAGTGTGGAC CTGCCTGTCG GAATGCTCCT CCTCCACGTC CCCTCGCTCC TGTGTTCCCAG CCACATGCAC CTTCCCTCTA CCTCTGGGAT CCCTGCACCA GGTCTGCCCC TGTCTTCTCA GGGCTGCTCC TMTTGGNCCA CAGGACCTCA GCTGGAATGT TGCCTCCTCC AAGAGGCCTT CCTGACTATT CAGCTCACAG TGGCCACCCA GCCACAATCT GCCATGTGCT TTGGGGGAT GTCTGTTAAC TGGCAACATA CTGGCAGCCC ATAACT

SEQ ID NO:276: (Length of Sequence = 381 Nucleotides)

GETETCEGEG AGGCTGCGCA AGGGGGCGAG CCCGGGCAGC CGGCGCAACC CCCCCATGGA CGACGGGTTT NTGAGCCTGC
GCAGCAGCAC AAGGAAGAGA TGGCGGCCGA GGCTCGGGAA GCCGGTGGTT CCCCCCATGGA CGACGGGTTT NTGAGCCTGC
ACTCGCCCTC CTATGTCCTG TACAGGGACA GAGCAGAATG GGCTGATATA GATCCGGTGC CGCAGAATGA TGGCCCCAAT

CCCGIGGICC AGAICATTIA TAGIGACAAA TITTAGAGAT GITTATGATT ACITCCGAGC TGGICCTGCA GCGITGATGA AAGAAGIGAA CGAGCITITA AGITAACCCG GGATTGCTAT TNAGITAAAT GCAAGCCAAT T

SEO ID NO:277: (Length of Sequence = 206 Nucleotides)

TTANTACEAC AGGGCTGGCG CCCGAGTAAT TCAAGCCCTT CGGAAGTGTC ACCGGCTGCC AGGCCTCGGA TGCAATCCTG
GAGGCGGGAG ATTCGGCCTN AAGACTGGCT CGAGCCGCCC AGGGGCTCCA TGGGAGACTA ACGCGGAAGT YCCAGCCGTC
CCAGTGCCGT GACGTCCCCC CTTGGTGGGG CCTGCACCCG ACTACT

SEO ID NO:278: (Length of Sequence = 260 Nucleotides)

ACCTIGIAATC CONGCACTIT GGGAGGCTGA GGTGGGCAGA TCACGAGGTC AGGAGATAGA GACCATCCTG GCTAACACGG
TGAAACCCCCA TCTCTACTAG AAAAATACAA AAAATTAGCC GGGCATGGTG GCGGGCGCCT GTAGTCCCAG CTACTCGGGA
GGCTGAGGCCA GGAGAATGGC GGGAACCCGG GAGGCGGANT TGCAGTGAGC TGAGATGCGC CCGTCTCTCC AGCCTGGGCA
ATAGAGTGGG ACTCCATCTC

SEO ID NO:279: (Length of Sequence = 308 Nucleotides)

GRETCTGGGC TCAGGGTTGG CCAGCTTGCA GAGGAGCAAG CTAGTAGAAA TATTGCAGGG TTCCCAAAAC CAGGTCAAGC
AAGATGCCAT GTCACCCCTG AGCATGCCTG TCTTCCCAGG GGTGTACCTC TTGGCTGGCA AAGCCAAGGC CAGTGGGTAC
TTGTATAAAT CACATGGGTA TGTTCTTGGT TCAGTGATCT TCGAGTGATG ATGGTAACTN ATGAACAGAG AACTTTYYAG
AACTTKGGTC CTGTCTTCCT CCCTGAACCT AGACAAGTTT CACCCCTCCT CCTGTACCCA ACCCCATT

SEO ID NO:280: (Length of Sequence = 402 Nucleotides)

ATTITAGCAG CITICITGAA ATTIAAAATA TATGIGIAAG TATCICATIT ATATGCATTT CIAGITICIT TATACAACAG AATAACTICI TITACATCAA ATTICIGAAT TIGACIAAAT TITAGAAATAA TIGAAATCICA TICCATTAAAT ATAGICATAG AAGGAAGGAA ATATGAAAAAT TAGGATTICA GATGITIGAA CATAAAAAGAT AATTITAAAC ATTIGICAGTA ATCIATTICT TITTITITTIC GAGACGGAGT TITGCICTGT CACCCAGGCT GGAGTGCAGT GGCGGGGTT TIGGCTTACTG CACCCTCTGC CICCCAGGTTC AAGTGGATTC TOCTGCCTCG NOCTCCTGAG TAGCTGGGGT TACAGGGGCA TGCCAACATG CCGGGGCTAA

SEO ID NO:281: (Length of Sequence = 313 Nucleotides)

GAGAATCCGT CTTAAAAAGA AAAAAGAAA ATTATAGAGG GAGATGAGGT GOGACAGAGT CTGGCAGTTC ATCAGGGGGA
CTGAGAAGGT GGCATTTGGA GGAGAGGAGG CAGTGAGCTG TGCAGTGTCC AGGCAGCCAC CCTTCCCCAGC GGCCACCATG
ACGGTGTCCT CATTGCTTTA ACCATTAGTA ATCATTCATT CATTCATTCA TTTATCCGAC GTCAGCTGGA GGNCCTGCCC
GNGGGGCATG CGCTTAGATT TNGGAGGCCT TCCGGGATGC TTGCGCTCCA ACGGGGGAAG GCCGACTTGG GCT

SEO ID NO:282: (Length of Sequence = 217 Nucleotides)

TGACCICAGT TGATCCACCC ACCITGGCCT CCCAAAGTGC TAGTATTATG GGCGTGAACC ACCATGNCCA GCCGAAAAGC
TTITGAGGGG CTGACTTCAA ATCCATGTAG GGAAGTAAAA TGGANGGAAA TTGGGGTGCA TTTTCTAAAGG ACCITTCTAA
CANATGGCTA TAATNTAAGG GGTTTAGGGT CCTTTTTTTT TTTTCAGGGA TACATTT

SEO ID NO:283: (Length of Sequence = 327 Nucleotides)

TAGAGAGGC TITTACTCCTG GTCCCATGGC GTAAAGATGT GGCTGGGCCT GACAAGGCTC AGCCTCCAGT CTTAAGATGG GCACAGAAGG GCAAGAAGTA AGATGACGAG, TCCCAGAATT AGGACAAGCC ATGAGCCAAG GCCTGGTCTG AGCAAGGGCA GCCCCCTGTC CCAGACACAG GCACCCCCAA TCTCACTTTG GACAGAGCCA ACGTGGGGGG ATCCTCCCGG GCCTGGGCCT GTCAAGTCTG CCTGCAGGAC CCTGCCATTG TGCTCAAATC ACAACCATTT TTTGCTTCCA ACATTTTTAGG GTGCTTGTGC AGTGAGT

SEO ID NO:284: (Length of Sequence = 340 Nucleotides)

CTTTGGAAAT GTAAATTGIT ACAAACITAC TITAGAGCAA ATTTAGTCAT CCITCAAAAA TITAAATGIA TACITATTTC
CTAAGAATTC GTTTGGCTCA CACAATTGIG AAAAGATAGA TGTACACCAG TGTTCATTAC AACAATTATG CAACAAATCT
ATTATGTGCC AGACATTATT CGGAACTCTG GGAATACATA AGTGAACAAA GCAGATTCCT GATCTCAGGA CCTGGGGTCA
GGGGTCAGGA GAAGCCAAAA AACACGCTNG AGAAATACTT TATGCAGTGT GGGGGGAGTG CTACCAGCAG AGCAGGGGAT
GGNGATGTGA AATCTTGTGT

SEO ID NO:285: (Length of Sequence = 335 Nucleotides)

GACATICACG GAGGIGGIT CGACCICCGG ITCCCCCACC ATGACAATGA GCIGGCACAG ICGGAGGCCI ACTITGAAAA
CGACIGCIGG GICAGGIACT ICCIGCACAC AGGCCACCIG ACCATIGCAG GCIGCAAAAT GICAAAGTCA CIAAAAAACI
TCATCACCAT IAAAGATGCC ITGAAAAAGC ACTCAGCACG GCAGTIGCGG CIGGCCITCC ICATGCACTC GIGGAAGGAC
ACCCIGGACI ACTCCAGCAA CACCATGGAG ICAGCGCTIC AATATGAGAA GTICTIGAAT GAGITTITCI ITAAATGIGA
AAGATATCCT ICGCG

SEO ID NO:286: (Length of Sequence = 399 Nucleotides)

GCACAATTAT TAAAAAGAGG CCACTTAAAT TCAACTCTCC ATGGATACAG TGTCTGTGGC AATGTTTAAT TAGAGATTAA
AATTGAGGAA TTGAATAATT GAGGTTGCTA ATGAATTTGA AAACTCAGCA AAGCAAGGAG AGCTGAGCGT TTTTCCGACT
TAGCTTTTCT TTCTCTAACC CTTTTCTCAT TTCCTACTAT TATCACATNT CTGGCCTTGA CTGCTGAGTT TATTACTACC
CATAACCCTG GCCTAAGTGG AAACAAAAAA GCTGTAGCCT CTTTGCTGAG CTCCTGGAGA CATTTGGTTTA
TGACATGTTC AGAAGCTTGC AGTTGCAGGA GGCTGACAAT GATGAAAATG AGATATGNTG GGCCACCACG CTTTTCTGT

SEO ID NO:287: (Length of Sequence = 294 Nucleotides)

TTCCAGTIGA ATTCACCAGT GGACAAAATG AGGAAAACAG GTGAACAAGC TTTTTCTGTA TTTACATACA AAGTCAGATC AGTTATGGGA CAATAGTATT GAATAGATTT CAGCTITATG CTGGAGTAAC TGGCATGTGA GCAAACTGTG TTGGCGTGGG GGTGGAGGGG TGAGGTGGGC GCTAAGCTTT TTTTAAGATT TTNCAGGTAC CCCTCACTAA AGGCACCGAA GCTTAAAGTA GGACAACCAT GGAGCCTTCC TGTGGCAGGA GAGACAACAA AGCGCTATTA TCCT

SEO ID NO:288: (Length of Sequence = 391 Nucleotides)

TCTACAGATG AGGAAAGCAA GCCTCAAGCA AGGGGGGCCT GATCCTTTCC CTGTTCCCTG TGTATTCCCT GTCTGTGGCA
AAGCCCATTG CCTTGATTCT CTTCTCTTTA CTTTCATGTT GAGAAGTAGT TTCTTTCTGC AGTTTATTTA ATTTACTGGC
AAAATGACGT ATTTTTTTTT CAGCAATGTT TCAGCTAGAT ATTTGCTTTA TGCATGTAAT GTCAATGAAG TACTCCATAAG
TTTTCAAGAA ATGACTGATA TAAATCATGT GTTCCACTAC ATAGTCTAAA TATTTAGTAT TTGGTCATCT ATTTTAATAT
GTTCAAAATTC TGTTAAACAA GNCATAGTCA CTATGTGAAG ATAAAAATAG NCAAAGTTGC ATTATGACTT T

SEQ ID NO:289: (Length of Sequence = 198 Nucleotides)

CTTATATTCT ACTITATTIG GIAAAACICA GAAACIAACA ATTCACATCC TCCCACCTTC TTCTTTCCGA AGAACGCAGT
TTGCAGAGAC AAAAGGGCTG TGGCGTGGGG ATCATCCACC ATCTCCAGGT TTTACACCCA GGCTACCCAT GGCTTGGCAG
TCAGGCCTCT AGGCTGATTG CTCTCAGAGG CAATAGAA

SEO ID NO:290: (Length of Sequence = 353 Nucleotides)

GGITTICATO TIOGITTAC AAAAGICCTA CIATITATIT ATTITAACIT TAATTIAAAT ATCACCIACO TIAGGIAGAA
GITTICCITT GIGIAATATA ATATAAAACO GACATITCIT GGGGCCATAA TAGIAAAGAT GITAACATIT TITGGITCIT
TITGGATGCT GIATITGIGC TICTICIGAA AGIGATGIGT GCCAAGATGG CICATGIAAC CCAGITITGA CTAGGCTATT
GATATICIGT CIGGITAATT TATIGAACIG GCTTAAAGCT ATACATATIT CCTTTTAGVIGTAA GATATICIAG
ATATATIGGT CIACIGATIC ATAATATCAC TGG

SEO ID NO:291: (Length of Sequence = 163 Nucleotides)

CCTGGTAGGC CTGCTACACA GTCTTGCAAC GNCCCTCGTG CTTGGGCTTC TGCCGTGAGG CAGGGGAGTC TGCTTGTCTT
AGATGTTGGT GGTGCAGTCC CAGGACCAAG CTTAAGGAGA GGAGAGCATC TGCTCTGAGA CGGATGGAAG GAGAGAGGTT
GAG

SEO ID NO:292: (Length of Sequence =397 Nucleotides)

ACGEGAAGGT GAGTATGINA GTATGINIGC CAGACAATGG TGITTCCATG TCAATGGAGG TTTCTCAGAG AGAGGTGATC
TGGCTGGAGA AAGCTTAATC TGGTGGCAAT GGACAGGTGA CTTTAAGAAG TGGGGAACGA GGGAAGGAGG CCAGTTTGAA
AATNATAACA AGGGTCCAGA CTCAGTGATG CAGCAGTGAC CATGAGAACA GAGCAGCTGC AGGTAGAAGA TGGAGACAGA
ACTNGGGAGA TCTGGTGGAG GTAAGCCGCG TGGAAAGATG ATGTCAGGTT TATACCTAGA GGACACATGA TCCATTCACA
AAGCCAGGGG NAACCTAAAG AGAAAACACT TAGAATTTIN GGAGAANAGG CTAGGGCTGG GCCTTAGACA TGGGCTG

SEO ID NO:293: (Length of Sequence = 360 Nucleotides)

GAGGIAAAAT TIACATACAG TGAAATCCAA ATCTTAAGIG TACCACTAGA TAAATTTIGA TAAATGCATT ATGCCIGGIC TTCACACACC CITITCAATA TATAGAAAAT MICCAGATAA TTTATTTIGI TGITTTITIC ACACACTAAG TTCTAGACTT TTCCAGGICC GAGGGAACIA TTAGGGGGGA AAGTACTIGI NATAGIAAAA AAGATTTTAG GIGIGITIGI TTTTAAGGIG CAGAAACACA TCGCAGATT AAGGICTGCA ATCTCTGCTT TTTGTTATTG TTCCAGTTT GATCTCAGTG ACATTACAAG CAAGCAGAAA CACTCAGACA TGAAATGGCC CAG

SEO ID NO:294: (Length of Sequence = 321 Nucleotides)

SEO ID NO:295: (Length of Sequence = 165 Nucleotides)

GACACAGAC GOCTOCOGCC COGCACAGGG GGCATGTCCA GAGGTGCTGT GTGTCACCAA CTGGTCTTCT AATTTGGAAG GAGTTGGAAA GGCCTTTTTG TTGATGAAAA GTTGGAAACA GTGGCACATA TCTNAGAGGG AGGAACGAGG CAGCGTGGTG AAGCG

SEO ID NO:296: (Length of Sequence = 315 Nucleotides)

LEAATACAGG TAGTGCCCAG CTGGTTGCGC TGGCCCAGGA AAATNCTGCT GTGTCAAATA LIGGTGGCCA GGATGAAGCC ACACCTAAGG CTGTGTTGGA GCCCATTCAG AGCACCAGTC TAATTGGGAC TTTAACCAGG ACATCTGACA GTGAGGTTCC

AGATGIGGAA TCICGIGAAG ACITAATTAA AAATCACTAC ATGGCAAGNA TAGIGGAACT TACGICTCAG TTGCAGCTGG CTGACAGIAA GICAGIGCAT TITITATGCCG AGIGCCGAGC ACTGICTAAA AGACINGCCT TGGCIGNAAA GICIA

SEQ ID NO: 297: (Length of Sequence = 244 Nucleotides)

AGTACGGTIN NCGCINAAGC TIGAINATCG RATIGCCAAT CINCATATIT GIGITAGAAT CATITGTITIT TGIGICTICA
TGITTCIATA AGATAGGACC AATATICITI ATIGGGCTTI GATTITATIT TGIAACITAA ATGIATTAAG GCAATAAATG
TAATTITCCA CINAAAACTA TCATTATAGA TITGGITACI ACCIACIGCI CAGCAATITI TTTTCTTATC AAAATTCTTC
CTGG

SEO ID NO:298: (Length of Sequence = 152 Nucleotides)

CCTGAACAGG TAATGAGAAA AATTTACACA CAAGTGATTT TGAAAACAGA ATGGGTTGCT TACAAATTAC AGGAAATGTT ATAACACAAA CCAGAAGAAT TCAATGGAAG GCAATAAGGGAAAT GAAAATTATA AAAGTATCAN GA

SEO ID NO:299: (Length of Sequence = 374 Nucleotides)

CGATGITITI AATGICATCA CACGITGICI CAAAATGAGI GGIGGCATCA TATGIGCGG AAATAAAGAI CIGGCITICT GITCCCAAGI CITITGGIAC CAGGAGGICA CIGATGCIAA CAAATTICIG TICAATTGGI TCCAAGAGCI CCAAAGCIGG TCIGATTICC TTCTCAGGCI CCTIGGITTC CACAGITGIA CTAACTATAG CAATGIACIT CCCTIGGCT GCTACATTGI GCCAAAAGGA GATCATGCAG ACGTAGATAT CIGACTTTCG ATTGACTTTG GTTCTGTGGA ATAATGATCT GGCAGGAGIT GCCATCATTG GTGTCTTTG ATGGGGGAGG CAGAGGAGT CAAATAACCT CTTG

SEO ID NO:300: (Length of Sequence = 365 Nucleotides)

GECTUACUAA GUTUAGUAAG TAUGTGTACT TUTTUGAGGU CTGCOGGUTG CTGCAGAAGA TGATTGACAT CTCCCTGGAT
GGCTTCCTGC TGACTCOGGT GCAGAAGATC TGCAAGTACC CTCTGCAGCT GGCCGAGCTG CTCAAATACA CGCACCCCCA
GCACAGGGAC TTCAAGGATG TTGAAGCOGC CTTGCATGCC ATGAAGAACG TGGCCCAGCT CATCAACGAG CGGAAGGGTA
GACTTGAGAA CATCGACAAG ATTGCTCAGT GGCAGAGCTC CATAGAGGAC TGGGAGGGAG AAGGATCTCT TGGTCAGGAG
CTCAGAACTC ATCTACTCGG GGGGAGCTGA CCTCGGGTTA CACAG

SEO ID NO:301: (Length of Sequence = 224 Nucleotides)

GGTATICAAA CAAATAGOCT GAGAATITING GGGGGATCIG AAATAGAGIA CIATGCIATG TIGGCIAAAA CIGGIGICCA TCACIACAGI GGCAATANIA TIGAACIGGG CACAGCATGC GGAAAATACI ACAGAGIGIG CACACIGGCI ATCATIGATC CAGGIGACIC TGACATCATI AGAAGCATGC CAGANCAGAC TGGIGAAAAG TAAACCITIT CACG

SEO ID NO:302: (Length of Sequence = 363 Nucleotides)

AGITICACTO TIGITGOCCA GGOTGGAGTG CAATGGOGTG ATCTOGGOTC ASTGCAATCK GCACCITCOG GKTTCAAGOG ATTCTCCTGC CTCAGCCTCC CAAGTAGTTG GGATTACAGG CATGCGCCAC CATGCCCGGC CAATTTTKTA TITITCGTAC ACACAGGGTT TCTCCATGTT GGTCAGGCTG GTCTCAAACT CCCAACCTCG GTGATCCGTC CACCTCGGCC TCTCAAAGTG CTGGGATTAT AGGCATGAGC CACTGTGTCC GGCCAGCTCA AACAATTTTA ATGCTTCTTT CAAGNCTATT AGAAACCTTT AATTGCTTCT TAAGTTTCTC CCCCAACTAT GGAGGAAGCA TAT

SEO ID NO:303: (Length of Sequence = 253 Nucleotides)

ATGCAGGAAS ATCTACCARG CAAATCGAAA ACAAAAAAAG GCAGGGGTTG CAATCCATCT CTCTGATAAA ACAGACTTTA
AACCAACAAR RRTCAAAAGA CACAGAGARG GCCATARCAT AA'IAGT'AAAG CGGATCAATT CAACAAGAAG AGCTAACTAT

CCTAAATATA TATGCACCCA ATACAGGAGC AACTAGATTC ATAAAGCAAG TCCTGGAGGT GCCTACAGAG GAGGCTTAGG CTCCCACACA TTA

SEO ID NO:304: (Length of Sequence = 416 Nucleotides)

TTTTTTTEAG ATGGAGIACT CECTCICITG CCCGGGCTGG AGTGCAGTGG CGCGATCTCG GCTCACCTGC AACCCCTGCC TCCCCAGTTC AAGAGGGTTCT CCTGCCTCAG CCTCCCGGGT GGCTGGAATT GCAGGCACAC ACCACCATGC CCAGCTGCTT TCTTGTATTT TTAGTGGAGA CGTGGTTTCA CCATGTTGGC CAGGCTGGTC TTGAGCTCCT GACCTTAAGT GATCCGCCAG CCTTTGGCCTC CCAAAGTGCT GGGATTACAG GCGTGAGCAC CGTGCCCAGG CTGTTTTTTA ACTGACTTTG GATTTTACTC CCTTTCTATG CAAATTTATT TTAGAATCTG TTCCTTAACC TTAGGGGGTT GGGTTAGACA AGTTTCAAGG GAGCCTCAAG TGKAAATTGC TTAAGG

SEO ID NO:305: (Length of Sequence = 223 Nucleotides)

CACACCCAGC TAATTITTGT ATTITTAGIA GAGACGGGGT TTCACCATGT TGGCTTGGCT GGTCACGAAC TCCTGGCCTT
GAGTGATCCC CCTGCCTCAG CCTCCCAAAG TGCTGGGATT ACAGGTGTGA GTCAGCGTGC CCAGCCCAGA TTTTATTGTT
TTAATTACAA ATTITACGTT AACTGATTCT GCACATTTAT ATTIGCACAC TTGTGCTAGT GAG

SEO ID NO:306: (Length of Sequence = 169 Nucleotides)

GITTIGCCAC ATTGGCCAGG CTGGTCTCGA ACTCCCGACC VVGIGAGCCA CCTGCCTTGG CCTCTCAAAG TGCTGGGATT ACAGGCGTGA GCACCACGCC CGACCCATAG CTCTTTACAA CTGCCTTGTA AAGAAAGCAT CATTTGGCAC TGTTAGTATT TCTCTTGAA

SEO ID NO:307: (Length of Sequence = 303 Nucleotides)

GATTIGGIAC AGAGIATGIC AGGAAGACAA CICAGATTGC CATITIAAAT AAAGITGIAC ATGAACAATA ATTGGAATCA
TCAGGIAATT TITTIAAACA AAGGITCITC ATTIACTGIT ATGATTGGAA AAAAAATTAG AAAATAAAGI AAGISCCATA
GGCTAATTAA AAAATAAAAC CITGGCCGGG CGCGGTGGCT TACGCCTATA ATCCCAGCAC TITGGGAGGC CGAGACGGGC
AGATCACGAG GTCAGGAGAT TGAGACCATC CTGGCTAACA CGGTGAAACC CCATCTGIAC TTG

SEO ID NO:308: (Length of Sequence = 143 Nucleotides)

ATCTAGGAGG CTGAGGTGGG ATCGCCCCAG TACTGGAGGT CAGGGCTGCA GTCAGCCATG ATCATGCCAC TACACTCCAK

SEO ID NO:309: (Length of Sequence = 199 Nucleotides)

CCCACCCICA TAANCCCCAC TEGGGAGICI GGGGGCCICI ATTGCCATGI GCCTGGAAIN AINATATGCI CATCACTITA
TGAAGAATAA AATTIGINIT TCCTGCCTIA AAGTTACAIT CGITCTTCCG CTCAAATCCI GATCTGGTCC ATTAAAGAGI
GTTCGCAGAC AAAGTTTCTG AAAGATTAGA GAAGAATCC

SEO ID NO:310: (Length of Sequence = 426 Nucleotides)

TCCCTGTACC ACCTCTTCCT GAATACGGAG GAAAAGTTCG TTATGGACTG ATCCCTGAGG AATTCTTCCA GITTCTTTAT
CCTAAAACTG GIGTAACAGG ACCCTATGTA CTCGGAACTG GGCTTATCTT GTACGCTTTA TCCAAAGAAA TATATGTGAT
TAGCGCAGAG ACCTTCACTG CCCTATCAGT ACTAGGTGTA ATGGTCTATG GAATTAAAAA ATATGGTCCC TTTGTTGCAG
ACTTTGCTGA TAAACTCAAT GAGCAAAAAC TTGCCCCAACT AGAAGAGGCG AAGAAGTTCT TCCATCCAAC ACATCCAGAA

TICCAATTIGGA TACGGAGAAG GTCACAACAG GCACTIGGTTT CCAGGAAGCG CCATTIACCG TITTIMATGG GMCAAAGGGA GTTACATTIGG CTATGGCTTT TIGGAAG

SEO ID NO:311: (Length of Sequence = 489 Nucleotides)

TOGACTOGGT COTGGATGTG GTGAGGAAGG AGTCAGAGAG CTGTGACTGT TTCCAGGGCT TCCAGCTGAC CCACTCTCTG
GGGGGCGGCA CGGGGTCCGG GATGGGCACC CTGCTCATCA GCAAGATCCG GGAAGAGTAC CCAGACCGCA TCATGAACAC
CTTCAGCGTC ATGCCCTCAC CCAAGGTGTC AGACACGGTR GTGGAGCCCT ACAACGCCAC CCTMTCGGTC CACCAGCTGG
TGGAAAAACAC AGATGAAACC TACTGCATTG ACAACGAGGC CCTGTATGAC ATCTGCTTCC GCACCCTGAA GCTGACCACC
CCCACCTTACG GGGACCTCAA CCACCTGGTG TCGGCCACCA TGAGCGGGGT AACACCTGCT TGCGCTTYCC GGGCCAGCTG
AACGAGACCT GGCAAAGTGG CGGTTGACAT GGTGCCTTTC CTGGCTGAAT TTTTAATGCC CGGTTTGGGC CCTACCAGCC
GGGGAAGGCA

SEO ID NO:313: (Length of Sequence = 302 Nucleotides)

CTTCTCATGC CAGTCTAATG ATTGTTTTTA GAAAAGGATA TACATTGACC TTCAATGTAA TAAGAAATGC AACACTTTAC
GGTGTCCAAC TGCTAAGGATT TATTTCCAAC TTGTCAGACA CAACTATTTT GCCCAATCCA AATCAAAGGG AATCAAGGCT
GTGAAATCCA CACAGGACAT CAACGCACAC ATAAATGAAA ACTACAGATG TGTCAGAGGC AACCATATAC ACACAAATAA
TGTAACTACT AAATTCCATG AAGTAGCTGT CCAGGGAATA CTTTCCAAAT AACCTTCAGC AG

SEO ID NO:315: (Length of Sequence = 339 Nucleotides)

CECSTITATIT AAATTGTGAA AAATAATGAA TATTAATTTG GAGCATAATA TITAAATACA TGAAAAAAGC TGGCTGGGAA
ATGTTGGCAT GACTTTTCCC AGATGTTAGC ACTGCTTCAA CITTTGAGAG NGCACTCTGA GTGTAAGTTT ACTAGACTGA
CATTACTAAA ATCATTGGTG CTATAGAGGC AGGAGAATAC GGGGAATAAG AAAGCCAGTT GCAAGCCAAC AATCCTAAAA
CTCCTCCTTT TGCCATGGAC TGACGGCATA TTAAATGAGA TCATGCATTT TAAGGAATTA ACAGTGTACA CCACATGTGC
GTGTTCCAAT AAAAGGAAG

SEO ID NO:316: (Length of Sequence = 430 Nucleotides)

TAAG: TOGTG GTGCTGTTCT GGATGCTTCC AGTGGGCCCC GACCAGGTCT GGACAATGCC TGGCGCCCGT CCCCCGCCCC
TCATCTACAC ACACGCAAGA NITCGGAGCT CCATGGGGAA CAGAAGCAAG ATATCCGTAA AATCAAAGTC TAGGGGGTGG
GAATGAAAAG GGAAAAGTGA GGAACGGGA GCCAAACCCA GGAAGACGCC TCTTTTCCTG CACATTCCCT CTCCTTTATA
TACTCAGCTC TTGGCTGTCT CCAGTATGTA CCCACCCTGG TCTTCCAAGC TGGGAGCCAC TTTTTATAAC ACAATCACAG
TTTCACAAAC CCCAGGAAGG TTCCATGTGG NGAGAGGTTA AGTTTCGNCC TTGTCCGGGG AATTATGACA CTCAGAATAT
CCCCTTTGGT GTAAATGGAA GACAACCTTT

SEO ID NO:317: (Length of Sequence = 317 Nucleotides)

GITAATGCTT CTNATACCTA ACAAATCCTG GAGGCCAGNC AGCACCAACA CTCAGGGTGC TGGGAAAAGG TGCGTGAGAG
ATCTGAGGCA TCTCGGGGGC AGGGGAGGGC TGGGAAGGCA GCCTGGCTNG GACCCTCGCA TCTTAACCTA ACCTTGACCC
TCTTTCCATG AGCAGAGTTC CGATGCCCTG GAAGCCTGGG AGAGTGGGGA GAGATCCCGG AAAAGGAGAG CAGTGCTCAC
CCAAAAAACAG AAGAGTGAGG CTTCCAGGGT GCAGCAGGGG TGGGAGGTGA TCAAGCAGGG TGGGGATTGT AAGCCCG

SEO ID NO:318: (Length of Sequence = 407 Nucleotides)

CTOSCCCCGC ACCITCCCCG CCIATGCCCC TCGCTGAGAT AGRCCCTTCC CTCCTCCGGG AGCCTCCCGG GCCACGCGAC CCCCAACTTC CCAGCGCCT CCACCCACGC TTCCTGGACC GCCTCCTGCA GGCGAGGTC ACATCCAGCA CTGTCCCTTA

CASTCCCCAT GCCCCTGGCG ACCTCAGTGT CCCACTCTGT AAGGGGACAA TGCAAAATCCC TTTGCCTCAT AGGGTGCATG
TGCCAGTNTT GATAAAGTGC TGGCCACAGG CCCTGCCTTC CCAGGGCTCA CAACACTGTG TCCCTGACAC ACCCGTGGGC
TGTAGTGATT CINTTCATGG GGATTTGACT ATAACCNGCA GTCAGGAATG AATTTCACAN CATAGCTCAG TACATACACA
CATATCT

SEO ID NO:319: (Length of Sequence = 382 Nucleotides)

CACTGCACAC CTGCGGTTGG GGACAGGACA TGACTAAGCA CAGAGCTTTC TTCTTTTGAG GCCACGCATG TGGTGCAGAG
CGGGACCACC TGCATCCACA CAGCCCGGGG CACCTGCTCC TACTTCTGCT TAGCGTGTGA GCAGCTTGGT GACCAGGGTC
TCCACCAGGG GGCAGGCCAG GACCGGCTTA CAGCACTTTC TAGGGGTTCT CTGGTCCCGG GCTGGGACAC ATACAGGGCT
TAGTAAAGTT CATAGATGGT AGCTAGGCAG CCCCAGGCCC CAGGTGACAC CTNTCCCCTG CCTGNCCTGT ACTGNCTGCC
TGCAGCACTC CTGGGAATCT TGTACGAAGA CAAGGAGAGA CAGGACTTCA TCTTCACCAT CT

SEO ID NO:320: (Length of Sequence = 368 Nucleotides)

CATCCGGGGC ATGGACAGCC CCCGGGGTGN CCGCCCGCNC CCCCCTCGCC GCGTCGCGTG CNGTTCACCA GGCAGCACCT
GGACAGCTCC AGAGTCGGGG AAGCGCCATG GTTCCTGCGC AGAAAGGATG CGGGTTGGGG CCGCAGAATC CTGCCAGGAC
TAGGGGCCTT CCCTTTCCAT CAGGAGCCTG CAAGAGAAAC AAGAAAACAT TAGAGGGGCT TCTGTGTAGG GGCAGGGCAA
GTTGAGTCTA TCTTTCCTCT TGTAGGTACT AATTAAACAC CTGCTGINTG CCTGGTACIN TGCAGGGTGG GACAGGCATC
ATAGCAACTC ACAGTGGTCC CCTCTTCTTT GTGCCCATAG TCTAGTAG

SEO ID NO:321: (Length of Sequence = 355 Nucleotides)

GGIGGACTGT GCTGTTGAAC TGAGCTGAAC TGGGATCAGG AGAAGGAGAA GTGGGGATTG AGCCCCTCAC CTCCACACAC
TCCTCTCTGT GCCTGAAATT CCTCCATTAA GCAGCATCGC TGTCCCCTGT AAACACCCAC ATTAAGCCAT TATTCATCTT
ATGGCTTNAG TAGGCGTTAG TCCCTCAGAT CCTTTCCTGC TGAAAGCGGA TCCTGATAGA GAGAAGGGAA GAGAGATCGA
TGGNTCTGGG GACGGCAGGC TGGTCCAAGA GTGGGGAGGA AAGATGTCTC TCGGACTCTN GGGNAAGAAA TATTTTCTGG
GGGAATATGG AGGCACCANA GGCAAGCTCA AGAGG

SEO ID NO:322: (Length of Sequence = 225 Nucleotides)

CTCTCACTTC TCACCAGGCA CCCACAAAGC CCCCAGGCAG CTCCATCTTT CCAATCCANT CCCATTATCC CAATCTCTAC
CCCAGGATCC CCCAAACTCC TCCCACTTCA CCTCTGCCAC AGACCCGCTC GCCCCCAAAC TTCAGCCTNC CCTCATCTGC
CCTNACCACC CACAGCCCCT CCTACCTAGC CCTCTCCCGC GACGGGCCCG CGGGCTCCCC ACATT

SEO ID NO:323: (Length of Sequence = 250 Nucleotides)

CTCTCGCTCC TGTCCGTGAC CTTGCAGATG CAGGTGACAG CCTGCCCTTC CGTTTTINTC TTTCCAGTCC CGCCTGCCGG
ATTGGGTTCC AGCCCTGCCC ACACGCCCGG TACATCCCGC CTACACTCAC CGATGTCGCC TAGCAACCCG GCTCGCCGCC
AGCATCCGCA ACCGAGGTCC CCGCGCTCCA GTTCTCTGGN GGGGAGGGAG AGGGGTGTTG CTTCTCCAGC CCCCTGCAGC
CTGGTGTCTT

SEO ID NO:324: (Length of Sequence = 338 Nucleotides)

GINITCITAT GOGGATAAAA TITCINAGGI AAGAAAAGIT AGCICIGAGC AGCCCICCGC CIGATACIAA TACIITACCA AIGGAGATIT TYCITITCIT TICIGITTIT GAGACAGGGI CICACITIGI TICCCAGGCI GGAGIGCAGI GGIGCCAICA TGGATCACIG CAGCCTCCAT TICCCIGGCI CAAGCCAICC TCCCACCTCA GCCTCCCGAG TAGCTGGGAC TACAAGGIGI GCACCACCAC GACTGGCTAA TITTTAATTT TITNNTAGAG ACGGGGGTTT CCCTATGTTG CCCAGGCTGG CTTGAATTCC
TGGGCTTCAA GTGATCCT

SEO ID NO:325: (Length of Sequence = 461 Nucleotides)

SEO ID NO:326: (Length of Sequence = 391 Nucleotides)

GGCCCTCCAG TGTCCTGCAG AGAGGCACTC TTGCCAAGTG TCATTGATGA CGCAGCTGAA AACCAGAAAC ATTTCACTTT
CCAGCCACGA GACTGCAGCA ATCTGCTCTT TGGACTGCAC TTAGGGAAAC CGAGGCCCAG ATAACTGACC CCTCAAAAGC
CCCCAGGACG GCAAAATCAA AGGGGCTGAG GTGCTCTGAA CAGCCCCAGC AAATTAAACC ACCTAACTTT GCGCTACTCC
CACTGCCCTG AAGCAGCCTG TGGTGGGAGG TGGGGGTGGA TACAGTGTTA CAAAGAGAAA CCTGAGTTGT AGCCATAGAT
TGCTAATCAG TAACAAAATA TCCCTCTAAA CCCAGTCCTG CCTTGAACCC ACAGGCTCAG GATGGTAAAT A

SEO ID NO:327: (Leventh of Sequence = 438 Nucleotides)

TACTGACTGA CCCTGG: GATTCCCAGC CGAGACGTTT CTGCTCCATT CCGCCAGGAG CTACCTTCCC GAGCCGCGCT
TTGCTCACCT GTAGGAG: TAGAGGGAAA TAAGACAGCC CTTCTTAGGA TGGTGGAGTG GCTAGAAAGA AGCAATCCAC
GCCAAAGGCT TAGCTCAGTT CCTAGACTTA GTAAATGCTC AATAAATGTC TGCCATTGTT ATTATTATTT ATNATGCTTC
CAGCTGGCCT GGAAGGAGG TTCTGGAGCC AGAAGGGACC TTGGAGAGAC CTCGGTTAAA TCTCTAGCGC CATCTTTATT
TTTAGGATGG AGTAACTTGC TCAGGACCTA CATCTAACAT TGTGGAGGGG ATGCGGTTTT TAAGTAGGAA TTCTTNGACT
AGACCTCTCA GCAACCCTTT CCTNTCCGTG ACAGTGGG

SEO ID NO:328: (Length of Sequence = 400 Nucleotides)

TTGCCCTCTC GGCCTAGAAG TCTCCCATTA TGGTGCTGTG TCTGCTGGGA CCCACGGGGC GCTGCACAGG GAACCATGTG
GCCGTGAACC TCAAGTCCNG NCCAGCAGGG GTCAATTGTC TCAGNCCACC CCTCCCTACC CCCAGTTATCC TCTCTCCTTT
ATAGATCATC CATTAAGTGC CAGACACTGC AGAAGGCACA TTGACTAATA TTAAATATTA GCCCAGCTAC CCTGCTGGGC
TGTCCTTCTT AGAAATGAGG AAGTGGAGGG TTAAGTGGAT TTCTCAAGGT CGTGCAGCTG GTAAATGGCA GAACCAGGAT
TTGAACTCAG GTGTGCATGA CTTCAAAGGA AGACACCACT GAGGCCTCCT CTANTGGGTC TGCNTCCCTA CCGGCCCTGG

SEO ID NO:329: (Length of Sequence = 227 Nucleotides)

GECTGGECTA AACTCCAGAC GCTGGCCACC TTCATAGGGT GGAGATGACA GAACAGGACA GGAGCCATGG GGCTCCCGGG GCGGGTAGGG GTGGGTCATG TTCCTTGGCT TGGGGGCAGT TACAAGGGTA CAGTGGGGCT TGTTGAAGGG CAAAAGTTCT GTAAGTNCGT CCCNACAGGC CAAAGAAACC CCAGAGCCGT CTTTCGACTG ACTACAGCCT GGAAGAG

SEO ID NO:330: (Length of Sequence = 401 Nucleotides)

TGAAAATATA TCCACTGTTC AGAGGGACAA CAAAGGCAGT TAGACTGTCC TGAACGGTC TGCCTCAGGC TGAAATTTTT GTAGCACTTG ATCAGTTGCA AAGTGATCTT CCCTTTAATA TCTCATTTTA TCATTGGGTA TCTGAAGAGG AAGTGGAATT GGGGTAAGAA TTTAGGTTCT TGCCATAGCA TITGGGTGGC CAGGGTAAGC CTCACGGTGG AGGACCCTTA AAGAAAACTC TAAGGATITI AAGGAGAGTC AAACTCIACA TICATCCAGG CAAACATCIA CICITCCATT GATTAATGGN TCCACTCATC CGIGCAACAC AITCACCTT TCATCCATCC ATTCATCCAT CIATCCINCA TCAATCCATC CATGIATCIT TCATTCATCC A

SEO ID NO:331: (Length of Sequence = 322 Nucleotides)

CCCAACGITG CCCCGCCITT GICTCCAGCG GACTGGAAAG AACCCACCAT TGTGAAGCAC AGAAAATTGC CCGCACTCIT
ATTGGCTAGG TTCCCCGGACT TCCGCTCTCG GITGGTGGIT GGCTTTGCCT GITACCTGTG TTGCCCACTA CCACTCGCTC
CGCCGAGCCC CAAGGATGGA TCGCTATCCC GIAGCCGGGT GITCCGGAGC GCTGCGGGCA AAGCAGACCG CCTTGCGCCT
ATTATGGGTT GAGTGGCTCT GIACTCTAGA TCGGCTCTGT CACTTACTAA TGGGCCGTGT TGCCTTCGCG ACTGCACGTT
TT

SEO ID NO:332: (Length of Sequence = 441 Nucleotides)

GECTCAAGNA ACCIGCACTC TIGCACTCIG GCCITCICCC AGGCTGAGCT TIATCATATC ATCAGCAGCA ACCIGGAGAA
AATTGICAAC CCAAAGGGIG AAGAAAAGCC ATCIATGIAC TGAACCCGGG ACIAGAAGGA AAATAAATGA TCIATATGIT
GIGGIGGGAA GGGGIGGGIG TCACAAAGAC AAAGATGACT TAGAIGCCCA CIGIAATCIT GACIGIGAGA AAGAGGGGAT
TCAGGCCCTT TCTCATCCAG TAGICAATGI GCCATCICCC CITCCCTAGT CACCICTTAT CITCACTTAC CITCITTCIT
CTCCTGCTTA TCTGTTTTCC ATCIAAGGCA AAAAGGGGGGG

SEO ID NO:333: (Length of Sequence = 354 Nucleotides)

AGAAGCGTAG ACCGAGTAGC TTGAGCGCCT CTTCCGGTTA CCTTTTCCCA GCGCCAGAGG GCCTTAGGGT TGGGGTCCTC
GCTCAGGCAC AGAGNCCCGA CACCGAGCGG CGGCTTCCCC GGGATCGAGG GACGCGCACG CCAGAGGAGA CGAAAGGAAC
CCGGGTCGGA CCAGATCGGA ACCACTGACC ATTGCCCATG GCGGCCCTAG TGAGTNTGGA TTTNGCGGGG TTCGGGGGTT
CCGGACGGCGA CCTCGGCGAC CCCTCACTCA CCGCTTCCTC TTTNCNCAGG GNCCTAGNAG CCAGAATGTC ACTGAATACG
TMGTTCGAGT TCCTAAGTAA GTCCCCAGGC CCAT

SEO ID NO:334: (Length of Sequence = 196 Nucleotides)

CTCCCGCTCC GCACCCGCCT TTCCCGAGCA GGCTACACCT CTCCCTGGCG CATCTTTACT GGAAAGCCGG CAGNGGNENG GGAGAAGTGA GCNCCGTCTC CGCGCCTCCT CGGTCCTGCT GGCTGAGCGC GGGGATGGCT CCGGAGGGAG ACACTCAGGA AACCACCTCC GCCCTTCCCC CATCTTTATC CAGCGG

SEO ID NO:335: (Length of Sequence = 261 Nucleotides)

TCCGAGAGCT GTCTGGGGCC AACGTGCTGG CTGAGTACTA CTGGCTCANA CGCCGCCTGC TGGGGGCCCC TGGNAATNTA
AGTCCTGCCC CGGGCTGTGC CGCCCTCCTC CCTGANAGCC CCCTGCNTCC TGGGCACAGG GAAGCCTCCA TAGGCTAGTA
GCATCACAGT GCCAGGCCCCA GAGCTTACTG GACTTCCCAA GGTCCTATGG GACTAGGGCT GAGGGTACAC ATCCTGCTTT
TTTCCAGAAT ATAAGTTTTG G

SEO ID NO:336: (Length of Sequence = 191 Mucleotides)

COGRADAGOS CITOSGOCAC ATOCAGOAGO AGIAGOAGOC GOAAGONOO GGACTOGAAG GOCCACOGNA GNOGGACTAA GTOGTOCAAG GAGOOGOCTT COGOCTACAA GGAACOGNOO ARGOOTACA GGGAGGACAA GACOGAGOCT AAGGOOTACA GGOGGOGGG GTOCNTOAGO COACTGGGAG G

SEO ID NO:337: (Length of Sequence = 279 Nucleotides)

CCTTAGGGCT CCTCCTGACT CCCTACTCC CACCCCAGGT AAAGCCAGAG CAGACTNAAG GCAAGTTTTC
AGGAAACCAG GWGGCTTGAT CCAGACTCAC AATCTCCCTG CAAAAGTKTT CAGAACACAC CGCACAAACA CACACACGCC
TCACAAAACT TCTGAATGTK GCTCTGTCTC CACCTTCTCC AGTCACCGAA AGACCTCGGC CTGAATTGGA GCCCGCAGGCC
GTAGCTGTCC CTNTCCACCT GTNGCCCTCG CGGAGGCTT

SEO ID NO:338: (Length of Sequence = 339 Nucleotides)

CCACNOGIGG AGGGAGGCAA AGGGGCAGCA AGAGAGAGGG AGGAAGCCCC ACTCTTTTAA AACAACCAGA TCTCTTGIRA
ACTGAGAACT CCCTTATCAC CAAGGGGACG GIGCTAGACC ATTCATGAGG GWTCCGCCTC CATGGGCCAA TCCCCTCCCA
CCAGGCCCAC CTCCAACACT GGAAATAACC TCCCAGCAGG CCCGCCTCCA GCACTGGAAA TAATGCTTCA GCGTGAGACT
GGAAGGGGAC TGATGGAGCC TGGWTGTTTK TCCCCGCCCA GSTCTMACGC TGAACCGTAA TCCCCAATGC TGGAGGCGGG
GCCTGGTGGG AGGTGACTG

SEO ID NO:339: (Length of Sequence = 334 Nucleotides)

GECACCGGGC TETCTCTNGT CCAGCTAGCC TCACAGGGAG TGGCCTCTAA AACNGGCCGG CCCACNCCAT TTGGAAGCTG
TCCCGGGTTT TCCGTGAAGT CCTCCCGGCC TGTGGTCTCC TGGATGGTCT GGACCAACAG CTTGGGGATG AGGGGAGGCT
CGGGGGCAAG GGCAGGAGCC CCAGCCAGGC GCTGGGGGTN TGGCTGATCG AAGAGCTGCA CCACCCNGTA GCTGGCCAGG
TGAGTATNGG CGTCCACCAG GTGCAGACAC ACATTCTTTT CCTTNACAGC CTCCTTACCC TGGAGTTTAT AGCCAAACGT
GAGGTGGATC CAAT

SEO ID NO:340: (Length of Sequence = 450 Nucleotides)

GGCCCCACAA TCCCCTTCTG GCTCCGGGGA CGGGGGGGGC GGGGGAGGG GGCGGAAATA ATTTINTGTT TGGTCGTCTC
TGCCCCAGTC CCTTCGCCGC GGGACGGCGA GACGGGAGAA GGTGCGGGAA GCGGGAAAGCA GGAGCGGGAG CGCCCGGCCC
TGGCACGCAT AGGGGCGCGG AGAGGGCACG AGCAGGGATT GACCACTAC TGTNTGCCTT CACGCTTTAC AAAAGGATTT
TCGTTCGATG TTCACTACAG CCCCTGCCCG GGGGTACTGA TGCCCCATTT ACAGAGGGAC AAGCCGGATT TCGGAGAGGT
GAAGTCACTC GCCGAAAGTC GCACCGCCAG GGTCTGCGTG ACACCCTAAA GCAGTGTTCA GTTACCCCGG GGAGAGCGCG
ATGAACTTGA ACCACTTGTT GGCTTGGTTC CTGCTCTTGC TCGTTTTTTT

SEQ ID NO:341: (Length of Sequence = 192 Nucleotides)

TTCAAACCT GGCGGCACGG CITGTCCCTC GAGGCCCGGC CCCTTCCCCT TCCGGAGAGC CCACCGCTGG GTCCTAAAGC CCACCGCTGG GTCCTAAAGC CCACCGCTGG GTCCTAAAGC CCACCGCTGG GCAAACCNGG TCTTTCCTAG CTCTTGCNTT ACTTCCTGGA GACTTCTTAA AACGAGAGGA GA

SEO ID NO:342: (Length of Sequence = 229 Nucleotides)

GIGGIAACIT TITTAAAAAA CATAAATACC ATACAATTCA TCCITTTAAA GIGIGIAATT CAGIGGITTI TGGIATATTC
AGIGITGCAC AGICATCACC ACTAATTCCA GAATATTTTC ATCACNCCCA CGGCIGIATC TCCCATTTCT CTCTTCCCKG
CAGATCCIGG CAACCGCTGA TCTACITTCT GICICITACA GACTTATCIG TTCTGGACAT TTCACATAA

SEO ID NO:343: (Length of Sequence = 229 Nucleotides)

TECTOCAGGA AATTGGAGIT CNAGCTGAAG GCCTTGCNGC ACTCCGNGCA CTCGTAGGGC TTCTNGCCCG TNTGCGTGCG
TCGGTGCTGC ACCAGCGTGG TGCTTCCNCC GAAGACTTGC CGCAGTCCCG GCAGCGGAAG GGCTTCAGGC CGCTGTGTGT
CTCCTGGTGG TGGATGAGCT GCGAGTNCGC GCGGAAGGCC TINCCGCACT NCCTGCAAGC GTAGGGCTT

SEO ID NO:344: (Length of Sequence = 227 Nucleotides)

TCCGCAGATC ANATTCACCC TTGCCAGAGG TCAGGSCCCC CGGCCTTGGC GGCGGGCCAG AAGCGTGACT TGGCCTSCTG
GAATGCATGC CCCTAAACAT CTCTAGACTA GGGGCAGTKT CCGCCAACCA TGGAGGCCCT CCATCACCAT CCCTGCAGCA
TCACCACCNT CCAACCCCCA TGTCCCACCC TGGNGNTTCC ATACCTGTAG TAAGAGAGACA AACCATT

SEO ID NO:345: (Length of Sequence = 249 Nucleotides)

GGGCAATGIT GICACAGATG TGTGCAGATT TTSCAGAGGA CATAAGTTGG CIGTGAGGWA GAACACAGAG GITSCCTATT
TTTTAGGCAG GAAAGAAAGC CIGCACTTT CIGTGTGTGT GINTCAATAA ATCTGAATAA CACCITGAAA GGGTTAAAAA
GCTGAGCACC AGGTGTTTC TTTCCACTTT CCAGAGTAAT TTAAGCACAC NSCAAAGTTA TCTCCCTTCC TTCCCCACGA
GCCAGCTTA

SEO ID NO:346: (Length of Sequence = 356 Nucleotides)

ACCIAGICCE GCAGCOGCIG CAGCOGCIGG GITGGOGGAA GAGCTGGACG CCGAGCIAGA GGACGAGGCA GAGCIGGACA
CAGTIGGOGGC GIGAATIGGC CACINCITIC GGAGCCOGAN CICTCCCGCA CIGGAGAGGA CITCTTCITIG GCIGGGOGGC
TCITGGITCC GCTCCCGCTC TGCTGCTGCT GGCGGCATIT NGCGCGGCGG TICTTGAACC AGACCTGCAG TGGGCCGGAT
GGGGGAGAGT GGGTCAAAGG GAGCIAGGGG AGCTINITGC TCCACCGNCC CGTGGACCCA ACTCCCGGTC CAGAATATCG
CAATCCTTTC TCACCGAGGC CITCGACCCT TCCTGT

SEO ID NO:347: (Length of Sequence = 155 Nucleotides)

GCCGCGGTGC GTCGGATGCC CAGCTCGCGT CCAGACCCGC GGGATGCAGA CCCGGTTCAG TCAGGCTTGA GGGCTGCTCC GCATAGACCA ACGTCCGGGG AAGGCACACA GTGGCCGAGG GCCCGCGCGC TTKGGCTACG GCTGTRATGG TATCT

SEO ID NO:348: (Length of Sequence = 362 Nucleotides)

AATTCCGATT TAACTGATTG TCTCATTCTG CTCATACATT TCAAGTTTAA ATGCAAGCAT AAAATGTTTA TCAACAAATC
TAGAGAGCAC TTGGATTTIN AATTTTCCTG TGATCACAGT AAGGAGCATA AAAAAGAGTA TCTNCTGTTA CACAAGGCCT
GINCTCTCTT TACATCTTCA GACTTAAATT CTGTAGAAGG TAACAGCTTT GTATTAAGGA CAGAAGCTTA GTGGTCACAA
ACAAAAAATA ACACTGAAAT ACAATTCGGG NATTANTGAT ACTGTGTGTC TCAAAGGATA CCTGAACTAT TACANTNACT
AATAATTTGG GCAATGAGAT TCCCNGGTGN TTCAACTTTT TG

SEO ID NO:349: (Length of Sequence = 342 Nucleotides)

AATTCCTTT TITTTTTTT TITTTTTTT TITTTTTTT TITCAAGTAT CACAATGTT ATTGATAGAT ACAAGTATAT
AAAATCAGGG CATGANCATG ACTTGATAAA TTAAGTAGAC TTAATTTCAA TACTATAATA GGNGGACCA ATTCAAATTC
TCACCATTTG TITCACACCC ACAAAAACCA CITCAAGGC ATTAACGNIC TCTCAAAACT GNICAGTTTT GIGCAAGTAA
ACCATGTTTC TITTAAAAAG ACTTGTGCAC TTGCCCAGGC TCAAGGTTAT TAAAATCTAG GCACATAAAG NCCATTACTA
GAGGTAGGAA ATACAGGCAA TI

SEO ID NO:350: (Length of Sequence = 384 Nucleotides)

GATCIGIGCT AGCIGIGAGG CAGCICIGGA ACGIGAAGAG CIGITIGGIT IGANCCGIGA ACAAAACIGI GITIIGAGIT
TAGCIGACAT TAAAGAAAAA AGITCATCAC GIGACIGITA AIGIAAACCI GGITATTAAA ATAACIATIT AAAACAGGAG
AAATCIGGIA AGITGITAGG NITCIAAATI CCITITAGIC IGITCACIGA GATATTAAAT TICAGIAGAC AGAACCCAAA
AAGAGATITC AITICITICI AATCACITIG GCITCINICI NITITINITAA GIAGGIAAAA ACCITCCIIG GIGGGCACCI
AAGCAGGAIG CAGCCAATTA GITCATGAAC CCAGCIGCGG ACGIGAAGGC TITAAAATCIA AGGA

SEO ID NO:351: (Length of Sequence = 305 Nucleotides)

ATCCTGACCC TCCCCACTGC AAGCCCAGGG AGCCCCAGCC CAAGATGGCC AGCCTGAAAC TGTTGGCCAG GGCTCCTCTT
GTGGCCATGT ACCCAGGGCT GGCTGGCCTG CCATTTGCCT CTCCCCGGAG ACAGCCGTTC TTCTGCAACC ACACCCCGTG
CCTAGCCACA ACCCCAGGCT GCAGCTGCTC AGAAGCTCCA GGCATTTTGT TTCTGGTGAC CGCCCCTAAT GGGATATCGG
TGATCACTGG TCCACCCTTC CTGTCAGGGC TTTTCTGGGG GCTGCTCTTG GAAATGAAGT CTTAA

SEO ID NO:352: (Length of Sequence = 270 Nucleotides)

GAAATTACCC ATGGTCATAT CTAGCCTACA AAGAAGAGAA AATACAGTGA TTCAAGTTTC ATTGTATTCC TCTCATTGAT
ATATTTATCA ACCTTCCAAT TGAAGGAAGT GTCTTCTAGG CCTTTACAAA GAATGTAACC AGGGTTTAGG TATACAAGTT
GCATATGATA AATCTGTCAT GTTTCTATAT AAATCTGTCC ATATTCCTCT TCTGAAATGC ATTATTTTTTG GGGGAAATTA
AAATGTGATG CAAAGATCCT TATACTTTGT

SEQ ID NO:353: (Length of Sequence = 195 Nucleotides)

GTGTGATTCC ATTTATATGA AATGNCCAGA ACAGGGAAAA CCTATTTNAG ACAACAGAGA CACAAAGTCG ATCAGCAGTT
GCCAGGGGAG GAGGAAGACG GGAGGGGAAA TNATTGCTTC ACGGGGTGAT GACAGAATGT NCCAGAACGT GACAGAGGTG
GTGCCTACAC AACTTTNTGG NTGTACTAAA TGCCG

SEQ ID NO:354: (Length of Sequence = 388 Nucleotides)

GCCAATTITT TIATTITTET AGAGATGGAG TCTCCCAATG TTGCCCAGGC TGGTCTTAAA CTCCTAGGCT CAAGGGATCC TCCCAGCTGG GCCTCCCAAA GTGCTGGGAT GATAGGCATG AACCACCATT CCCAGCCCAT TTCCTTTTTC CCTTTGCACA GTACCAGATA TATGGTTGGT ACTGCAGAAA TAATTTCCCC CTGCCCTCTA CATTGATCAT TTGATGACCA AATAGTGTCC GTCTAGCCAC TTATTTATGA TTTGTACAAA ACATTCCGCT TTCTGAGGTA GACAGTGATA TTCTGAAGCC ATCAGTAAGA GTAATTTTTC AGINTTGTTG AAAGTGCCAC TTCTTTGTGT AAAGGTCAGC CTGTCAAGGA AATAGCAT

SEO ID NO:355: (Length of Sequence = 288 Nucleotides)

TAAAGTGAAG TATTGGGAAA GGGAACATCT CACTCTGATA GATTTGAATT INCTATTTCT GCTCTGTGAC AAAACCCTGA
GTTGATATGT GATCAGACAT TTACAAGGCC CTGCATTCTA CCTGGNAATG GCTATAGTGG TGTTGAGATG
ATTTACTGCA ATTTGTCACT TTTTGAAACT GTTCCAAAAT AGTCTGCTGA CAGCCCTTCC CCTCATGAAA ACATCTCTCC
TTTTCCAGTT AAAAAAACAG TCAAAAAAACA CCAAAAAAGG CCACCTCC

SEQ ID NO:356: (Length of Sequence = 401 Nucleotides)

GGAAATTAGG TIGGITATTA ACATGIATAG ATGGAACTGG GGTGAAAAA AAAAGGAAAT GGGAATGGAG TGGAAGGGIT
GGGTGGGAGA GACACTTCAC AGTATTCTIT TIGTITTGAC TITGGAAATG TTACTATTTC ATAAACTTAA AAAAATGCAA
AAAAAAAATA TCAAAACTAG GTAGGAAGGA GAACAAAATG AAATATAACC AGAAAGGAAT AANCCTAACA CATTITGAGT
GAATCACAAA GCCAAACCAA AAAAGAGCTA ATTIAAGTCA CITTIAAACT TGGTGTTTAA CIACCTACAC TCAGTCTAAA
AACGGNAAAT AAGGGTAAAG AAATAGTGGA ACTCTAGTTA GTTGGGTCTT TTCTTTACAG CAGTATGGGG ATGGCAACCT
G

SEO ID NO:357: (Length of Sequence = 275 Nucleotides)

CAGACAGIGG ATAATAAACA CCICATTAGG AAACCGATCI CAGAATGANC TCIGGAGIAT GAAAAAGATC ATTICITITT
GINCCIGIAA CCIAGCATIC CITCIAGGCI TCINCICCIT TAATIGAACC ACAGCTIAGC TCATGIATIC TTITATTAAC
ACCCIGCICI CATGICCATA AGATICAGGA ATTIAGGAAA TNAGGCTGGI TIGAAGAGG TAGAAAGCAA TAAAGGCAGN
AAAAAATAAG NCIAAAATCA GGGGAAGATG TATTT

SEO ID NO:358: (Length of Sequence = 314 Nucleotides)

GIGAAGGAAG TATGAAAACT GAGACTAATA TTATGAAGTC TTTTTTTAAT TCTTTATCTT ATTGCCCATT TTTAACCCCT
TGGTGTTTGA AATGGAAAAT AAATATNCTC TTCGCGATAG ATAATATGTC AATAACCAAA AGGTGGCCTT AACCAATAAT
TGGCCCCAACT TTAAATTATT ACCCTAAAGA TATATAAATT ANCTAATCTA AAATTAAATG CAATTTTGCT ATGACTTAAA
GTGTCANTAA TCCTGTATAA GNGATCCNNT TTATGCAGTC ACTTAGGCAT GAAGTTGGCA ATTCATCTAA ACTT

SEO ID NO:359: (Length of Sequence = 372 Nucleotides)

CAAGAGAGAC ATAGCAGGCA TTGAAACAAT GGAAATGCCC ACATAGCAGA AGGGAGTGAG GGGATCCAAA CTACAAGAGC GACAAAAATCA ACTGIGGATC CAGAGACGAA AAAATGTTCT GTAGTGCAAA GGTAATCTGG TGAGATGAAA AAAAAAGAAC CATTTTTAGA AAAANGGAAT ATTGAAAATA TTGAAGTAAA TATCATAAGT CATTCTATTA CAAAGGCATT AACTCCTTCC TATCAATAGA ATGTACCAGT TTAAAANTTT TTAGTAGGAA TATATCTTTT ATTTTATTAA CAGAAATCAN GGGACAAAGA GGATTTGATC CATCCATACT TCCTACTCTT ATTGGGTTTG TCAAAAATGTA GG

SEO ID NO:360: (Length of Sequence = 395 Nucleotides)

GCATTCTTTT GATACCCACC TAATAAAGAC AATCTCTAAA ACCAAATAAT AGGCTATGAA ATGTATTGTG AGINCTTATT
TCATTCAAGA CAGAGCTTAC CTTTAAGTCT CCAGCTGAGA CAGTTGGTTT TATCTTTCTG AAAGCAGTTT GGTCAAGTGT
TTCAAGTAAA TCAAAAGATC GGTTAATCAA TTCCTTAGCG AATTGGATTA GACACTCTCA TTTCAAATGG CAGTTTTATG
CTTACTCATT GTCTTGAATA ANCTTAAATA CTTTATGCTA TCTTCCTGCT CCATTATTTA TGTAATCACT GGGNCCTTAG
TATTCTGCTT TAGNNCATAT AAAATCACTT NCAGGTATTT TCCATCACGG ACACAGAGGC AGGCACAAAT TAACC

SEO ID NO:361: (Length of Sequence = 298 Nucleotides)

ATTITUTUS GGGGAGAACA TITAAGACCA TITCAATGIC ATGATGAAAG CIAATGGGAG AAGGCITTIN INCIACAAAA ATTINCITIA TITITINCAAC TITAATGAGG TIATAATTGA TATTAAAAAA CIGIACAGAT TIAATGIGIA CAGICIAATG AGITIGGGACA TATGCITACA CCCNIGATGC TGITACCACA GGCAAGGTAA TACACATATC CGICACCIGC AAGAGTITCI GIGITICCCN NIGITICICA TITIGNITIT TICAAAAATT TACITITATAG CCITATAG

SEO ID NO:362: (Length of Sequence = 437 Nucleotides)

ATGCTGGAAG TGATTTCTGC AGCTCAGGAT TTTTTTTTTA AGCTACATTG AAAATATAGG TTTATTTTTT GINCAGGTTT
TNCTTTTATA TTTTTTTNCT GCACAAAGGA GGAGGATTTT CCACTTACTC ATATCGAGGC CAGATTTTTA AAGCCAGCTA
AGGCAGCATC AGCTGTGCGG GATTTAAAGC CTATAGCTCA GCTGAAAAAA AAGGTGGGGT GGCGTTTCAT GTAATGGGAC
ACGATGCCCT TCTTGCTGAA CGACTGGAAA GAGCACAAGG AGCACTTTTC CTTCTCCACT GCCCGCCGGA GTTCCTCGCT
CAGCTGAGGG GAGTCGTCCT TGGGCGGGGA TGGGATGATC ACTTTGTTGG GCTTNTCGCT GATGGTCCTG GAGGCTGCCA
AGAAGTTGAG GTGTAATACG CATCAATGTC CGTGGCG

SEQ ID NO:363: (Length of Sequence = 449 Nucleotides)

TGATTTGÀAG TAAGCTITCC ATGCTTCACT TAGGGIGGGA AATTTTAAAT ATCAGAGCTT TCTTTGITAG CAGCATATAG
TTATGCAATT TATTTAAATC TGCAGTGCCA ATCTTTTTT GATGGGIGIG CTTAGACCAC ACATTTAAGA TAATTATTAA
TATGTTAGAA CCGAATATAT TTTNATGATT AGITTTTATG TGTCAATTTG ACTGAATTAA GAGATGCCCA GACAGGIGGT
TAAAACATTA TTNCTGGGIA TGTTTGIGAG GATGTTTCCA GAAAAGGCTA GCATTTGANT CAGCAGACTG AGTAAAGAAG
ATAAAGATAA TACTTGTCAT GTGTACAGGC ATCATCCAAT CTGCTCAGGA CCCCAATAGA ACAAAAAGGT GGAGGGAGAG
TGAATTATGT CTACCCCCTT GAGCTTGGGA CAGCCATCTT TTCATGCCC

SEO ID NO:364: (Length of Sequence = 282 Nucleotides)

GACTGTGTAA ATACACTTTA TTTTCCATTT INCCCGCCTG GGCGACATGT GAACAGGCAG TGTGCAAAAT GGTGGCGGGC
AGTGTAGGGG GCGTGTGGAG AGCCCCGTGG GTGNCTGCCC CGGTCCCCCAG GCTTCGTAAC ACTGAAAAGT GGGCAGCTAG
GAAGCGGGGA CGGAGCAGGG GTCCCCACCC AGGAAGCGCC AGGNAGATTN CTTGTAACGC TACTCTACTG GAGGCTCCGG
GAGCACCGAG NGGGGCAGTC CCCAGGGTCA TGAGGCCCGG GG

SEO ID NO:365: (Length of Sequence = 349 Nucleotides)

TICAAGCATT TCTCCIGCCT CAGCCTCCCA AGIAGCIGGG ATTICAGCAC CIGCCACCAC GCCCAGCIGA TTTTTGTATT
TINAGTCAAG ATGAGATTTT TGCCATGITG GCCGGGCTGG TCTTGAACTC CTGACCTCAA ATGATCCGCC TGCCTCAGCC
TCCTAAAGTG CTGGGATTAT AGGCATGAGC CACLACANCT GGNCTTTTTN TTCTGTTTCT AACTGTTCCC TTTTATTTCC
CTATGGAGCA TCTACTGAGC CCCAGCCGAG AGIAGAAACA AACCTGCTGG CTGCTCTNAA GGCACTTATA GTCCCAGTTA
GGGGNNGACG GGTCACTTAA CCACTTAGT

SEO ID NO:366: (Length of Sequence = 366 Nucleotides)

ATGCAAAGGA ACAATGGTGT TGGCAAAGTC TTCTTTGAAT ATCAGAGACT GAGTCAATAA AAAAAATAGT AGAAAGGTGG
CTTTTACTAT TGACAAAAGC CGGGTCAAA AAAAGTAGTT TAAGTCTTAA GACTGAATAT GCATTAAAGT ATGCAGGTAG
CAAAGATGTA ATAAATTTCC TTAAAAAAAAG AAATTAAAGT TTTATTTAGA ATCAATTTTA CCNGTCATTG TAATTGACCC
MTCTGAGTAT TACAATAAGC AAGAGGAAAT TAAGGTGTTT TGCAAGAGCT GTATTTATAT TACAGNTTTT TAAAAAACCAT
TTTCTGAATT ATCGTAATTA AAGCTCTCCC AACTCGTTTA AGTCAG

SEO ID NO:367: (Length of Sequence = 391 Nucleotides)

GCAAAAACAA ACAAACAAAC CTTTAAGTAC AGTAGTICCA AAACACACIG CTAAAGTTAT GAAATAATIG TGGATCATTT
CAAGTAAAAA TTATTAAAGG AGCAATAATT AACCACAAGG GGGCATATAT ATATATNCNC CTTAGATTCC AGCAGAAGA
CTAGTTTTAA GTAGTAACAT GCACGTTGAA GTATTCTACA TTTTCAGTCA CTTAAACTTT CCTCTCTCAG ATGGCTACAA
CTTTTTAATA TTCGAGGINT ATTTTATATC TAAGTAAAAG GATTCCAGAA TACTCCTGCC CTGCAAAACA GTAGTGTTTT

AGAAGNCTCT NGGAAGTGTT GCTGTTTACC CTTTAGCAAA GNGNTACAAG AGCTATTAGT TGTAATAATA C

SEO ID NO:368: (Length of Sequence = 370 Nucleotides)

ATTICCCITC TECACTOGGT TCTCCIGCTC CCCATTIACA TGGITTACTT CATTITCCTC TICATCCATT GGATTCACAT GIGITCIAGG CCAATATICC AGGAGGAAAAG TCCTCCIAAA TICAATITTIG GWICTGACCC ATCAGGGCTG CTGAAACCAG CATCTTTTGC AGGAAACCAG GCAGCAAAAC AATCACTTTC ATCCAAAGTA ATAGTTAACA TCCCTGTTTT TAAGTCTACT GAGAACCAAT TTGGCACATA CACCATTTTA AATCTTTNCT TAATTTCATC TTCAAAATCC ACTTTGCCCA GATCTTCAAC TTTACATGGC TTCAATACAT CCCAATATGN CACATTATTA

SEO ID NO:369: (Length of Sequence = 315 Nucleotides)

GACAGGIATT CITTAGAAGT TITTIGITTA CITATGITTI NCICITTIAC ATCICCITGI GAATITCIGI CCCATTITGA
AGICICICCI TGITCICGAC CAAGAICCCC TIGAIGITCI GIAGCCAAAA ACGAGAAAA AGAGITATIC TGAATGAIGI
AGAGGITGAT AAGICIGGIA AGAAACIGIT GGACATACTC CAAGCAGCAC TGCATTGCAG TCITTIGGGC TGICITCCIA
CITCGGGITG CIGICCCCIG AGIGACIACG GAAGGGGICT GGATGATGGI TICITCAGAT CCCACAGIGG AIGCT

SEQ ID NO:370: (Length of Sequence = 442 Nucleotides)

AACACTITIA CACTGCTGGC CTAATTIGTA GATATCCTCA AGAAGATTAT GAGICATTCT CACTACCGGA ATCRGTTCCT
CTATTITITIT TACCAATGGG TGCACCATTG AATGTTGGCC ATCAAATAGC AAATACCCTC TGCCTGTATT TCCTACININ
GTTTTAACTG GAGCCTCAGC TGAAAAAGGIT TATGGTGCTG CTATTCAGIT TTATGAACCA TACTCTGAGG AGAATCTCAC
AGAAAAGCAG AGACTTCTTT TGGGTTTAAC ATCAGCAGAT GGGAAGTCTG ATAGTTCCAA AACAATTCAT ACTAACAAAT
GCATCTGTCT TCTTTCTCAC TGGGCNTTTT TTTGATGGCA TTCAGGAAGT TTCTGACTTT TNCTGTATCG TTAATTCCAT
CTCTGGGGCT CATGTCCTTC CAATTGAGGA GGATAATTCC CA

SEQ ID NO:371: (Length of Sequence = 441 Nucleotides)

GACAAAGTCA CTCAGGGTCT ATTTCACCAT ACCCCAAAGT AAAGGCCCAA ACTCCACCGG GGCCAAGTNT TTCTGGNTCA
AAGTCACCAT GTCCCCAAGA GAAGTCTAAA GACTCACTAG TTCAAAGTTG CCCTGGNTCC CTCTCTCTCT GTGCAGGAGT
AAAATCTAGC ACACCACGA GCGAGAGCTA TTTTGGTGTC TCATCTCTGC AACTGAAAGG ACAATCTCAA ACTTCACCAG
ACCACAGATC TGATACTTCA AGTCCAGAAG TGAGACAGAG TCATCTCAGAA TCACCATCTC TGCAGAGCAA ATCTCAAACA
TCACCTAAGG GAGGTCGGTC CAGGTCTTCA TCTCCAGTCA CTTAGCTTCG CATCCAGATC TCCANTAAGG NCAAGATAGA
GGTGAGTTCT CAGCGAGTCC TATGTTGAAA TCTTGGAATT T

SEO ID NO:372: (Length of Sequence = 362 Nucleotides)

GAGGIATTGT TGTTACTGGG AGGITGAAGG GAACACAAAT TCAGTTATAA GICCTTTTTG AATACTAAGA GGGGAATAAT TAGGGAAGCT AAGAGGGGAA TAATTAGGAG AAGAAAAAAA AACTTCAAAC AATTTTCCCT GIAACATGAT TTTACTTGCA ATTTAAAAAC GATTTTTTTT TCTAAGCACT CCTTTGATAA TGATTAAGGIG TGGGGTTACA TTATTTNAGG GICGICTAAT ATTTAAGGIG ACTTAAAAAAC CTCACACACG TTAATCCCGA ACTGTGAAAA TTTCTCATCT TATCATCCCT CTGTTACTAT CAATTTTCCCT CACGGTACAG ATTCTTTTAT AATTACTTCA TT

SEO ID NO:373: (Length of Sequence = 306 Nucleotides)

ATTCTTTGIG CGIGIGIGIG TGIGIGIGIG TGIGIGIGIG TGIGIGITTGC TGIGGAGTIG AGITTCTTTG TAAATTCIGG ATATTAGITT CITGGAGTAG CTACAGAGAAATCT TTINACITTA ATATAGITCT ATTTGTTTAA TTCTGTTTTT CTTACCATG CTTCTGAGAAT

CTTAGCCATA AAATGITTGC CTAGAACAAT GCCCTGGAGT GTTTCCCCTG AGTTTTCTTC TGGTAG

SEO ID NO:374: (Length of Sequence = 278 Nucleotides)

GGGTTTTGGT TGAGGTTTCT ACCTCATTAT CCAAGATATT TNCTTTCCAG CCAGCAGAAA GAAAAAGGAG AAGAGCTGCC ACCCTTTGTA TCCAGGATGA TCTCTTNTTG AAATCCTTGA TTTAATTATA TCTGCATGAC CCTTTNCCCA ACTAAGGTTA TATCCACAGT TACCGGGGGT TAGCACTGGG ACATCCCTTA TTTTANGAAC ATGTCTCAGA AAGTTGCACA AAAAACTTCT ACTACATCCC ATTGGCCAAT ACTTCTTACA TGATGACA

SEO ID NO:375: (Length of Sequence = 321 Nucleotides)

GGTGACAGTA TITTTTGTGG TITCTGTAGC TCCAGCCCCT CAGAAGGGAC GCCTACAGTT GGCAGCTATG GCTGTACCCC
TCAGTCATTG CCCAAGTTCC AGCATCCTTC CCATGAACTG CTCAAGGAAA ATGGCTTCAC ACAACACGTC TACCATAAGT
ATCGTAGGCG CTGCCTTAAT GGTAAGAAGT GTGGGGGGCA GGAGATGAGC CTCTGGGCCC GTTATTTAGA CCCAGAGTAT
AAGAGTTGGG GGATACGGGG ATAGGTGACT CTTTTCTCTG ACTTCAGAGC AAAAAAAAAGA CATGACATTA TAGCAAGAAA
G

SEO ID NO:376: (Length of Sequence = 337 Nucleotides)

GGAAAATTIA CAGCATGACT ACATATGTTA GGAAAAAAAT ATCTAAAATC AATTAACTAA GCTTCCATCT TAGGAAACTA
AAAAAAGAAG AGCAAATTAA ATCCAAAGTA AGAAGAAGAA AATAAATAAT AAAAATTAGA GCAGAGAGAA ATGAAATTAT
GAACAGGAAA TCAATTTTAA AAATAAATGA AACCAAAAGC TGGTTCTTTG AATCAATTAA TAAAATTGAT AAGCCTCTAG
CCAGACTAAG AAAAAAGAGG TAGGGCACAA ATTACTAATA TCATAAGTCA AAGAGGGGAC ACCCCTACAG ATCCCATGGA
TATTAAAAGG ATAATAA

SEO ID NO:377: (Length of Sequence = 455 Nucleotides)

GITACAATIG AGAAAACATA TITAATAAAT CATIGICAAT TITINATAAIG TITCAAGCCC ATICITIGIT GATAGCCTCC
ACATITATAT GGITAAGTCA TIGITGCIGI GITICITACC TATGACATTA TITINATATC CCTICATITG TGGATCITAA
GATGITGCAG AAGGITCATT CCTGTACCCC AATACAGATT CACITCCTIT AGCTGCCTIT NCTAGCACCA ATATGCTITA
AAAAAAAATG CGCAAACAAC AAGCAGTGAC AGCGGCCAAT TCCTCGAATG TCCAGATTAA TAACTGTAGC ATGCTAAAGA
AAGGIGTGTG TAAATAGCTG GAGATGGTA ATGGTCCAGA GTCCAGCATA AAATTATTTC CTTTCTGAGG CATTCCCTCC
ATTCCCCTAA CCCGGATACA TGCATTAGGA ATGTAGCAAA ACCCTTCGGG GAACC

SEO ID NO:378: (Length of Sequence = 349 Nucleotides)

GATGGICACG GGIGITIAIT ACTGGACATG CICTATGCTT ACTTGCTTGA AAACGCTCCA TIAGAAAATN AACTCTGAAA
ACTATATGCC CAATGCIAAT AGTGGGTATT TATTGGTAAC ACTCTTTATC AGGTGCTATG ATTGTTGATG GCTTTATTTN
CINCTICATA TTINCIATAA TINCIACAAT GAACATGTAT GTATAATCAG ACAAAAAAGC CAAGAAATAT CCATAAGTTT
TNCTGGTCAT TCATTCATCC CATAAATACT TGCTGAGCAC CTGCTGTAAG CCAGGCTCCG AGCCGGCTGC TGGGTGGAGT
GCCGCACCCC AGGGAACGGT CAGCCCTCG

SEO ID NO:379: (Length of Sequence = 421 Nucleotides)

ATTITIGAATC ATAITTTACT TATAGGITTIG CIGTATATAC TGATTAAACT TCTGAACCTA AAGATTCTCT ATAATTAAAC
TAGCACAAAT ATAATCIGTC CCTTACCCAC ATTIGTAAGAA TGTCTGGTGG GGGAAATCCA ATATTGACCT TCACATTCCA
CATGGAAAAT CTTTGTCCCCC AGAGTGCAAT TAGGGTGATT AAAAATAAGC AGCTTTTGTG AGTCTCAAGT TTGTTCCCCA
AALAAGCAGC ATCAGCAACT GGAAATTTGT CAGACATGCA AATTATCCAG TCCCACCTGA CACTTCAGCC CAGATCTATG

GATCAAAAAT TITIGGGGGIG ACCCIGGGCA ATATGGGCIT TAATAAGNCC CIAGGATGGG TICIGATGCA TGCTCCAAAT TIGNGGATCA TIGNINCINI G

SEO ID NO:380: (Length of Sequence = 311 Nucleotides)

ATTTINAGAT GGAGTCTCAC TCTGTCGCCC AGGCTGGAGT GCAGTGCCAT GATCTCGGCT CACTGCAACC TCCACCTCCC
AGGTTCAAGC AATCCTTCTG CCTCAGCTTC CCCAGTAGCT GGGATTACAG GCACCTGGCT AATTTTTTTT
TTTTGAGATG AAGTCTTGCT CAGTCGCCAG GNTGGAGTGC AGTGGTGTGA TCCTGACTCA CTGCAGCCTC TGCCTTCCGT
GITCAAGCGA TCCTCCTGCC TCAGCCTCCT GAGTAGCTGG GACTACAGGC ATGCACTACC ACACTTAGCT A

SEO ID NO:381: (Length of Sequence = 442 Nucleotides)

AATCIGIGAA CATATATTT NATTATCIT AAATACCIAA GAGIGAAATT NITGGITCAT AIGIGGGIAT ATATTCAACT
TIGIAAGAAT CIACCAAAAT GATTITCCAA GIATATGIAT AATGITATGG TCATCAGANC TACATGATAG TIAGAGITGG
TIAACATACT CACIGCAATG GATTGACITT CCIGIGATIC AGCIATCCCA CICTIAGGCG TATACCCAAG AGAAACTCAT
AATGICCITG TGIGCAGCIT GIATGCIAAT GATTITAGIA GIATTITITG TAATAGCCAN AAGGIGGAAA CANIGAAAAC
TITCACGGAA AIGATTAATG AATTAACAAA ATATTATATA TCIATATATG ATCCATTAAT CAATGAAANG GANIGAAGTG
GIATACAAGA AACACCACAG GITAACCNIT GAAAGTATAT TA

SEO ID NO:382: (Length of Sequence = 337 Nucleotides)

AACAGACTIT GGAGCCANIC CCAIGIGAGI TIGAGICICA GAGIGACICI GGGCAAGINA CITAGGCITI CIGAGACICA CITICCICCI TIATAAATCA GGAAGAATAA TCCAITGCIC AITGAGITGI TAATNAGACA TAAATGAGAT AGIGIATCIA AAATGTGATT TGITAAGICI AATACGNAAT AGAIGCCIAT TIGAGIGITT CINATACTCA GGATGGITCI TGGGATATAT TINCCCAIGG AACAAAAAGC AGACTACTCA TGACCACTCG GATTTTATGI TCAGCCACAT TAGGGCTCIT ATGGCCTGAC CTGAAGACCT ACCATTT

SEO ID NO:383: (Length of Sequence = 421 Nucleotides)

GIGAAACIGA AGAAGACCAC GACAAACGAT CGCTCAGCCC CTCGCTTTC TTAGGITCAC AAGAAATGCG CCGGIGGGGA
ATGAACINTI TCATTAATAA AACCTAATTT GICTIGATCC ATTCCACTCT ATAATAAAAC AAAAGATTIT NIAGGCAACT
CGGAATATAG CTCTTTTGAA AGTACTCGAC ACCTTTAGAT AAGAATTAAA ACCAACCTAT GTAACTGACA TAATCTTGAT
CINITAATTT GIAAATATTG ACANITINCT TTCTGCACAT TTTAATCTTA GTTTCCCTTT TGATTTTNCT GAAGGTGCCA
AATTCCATTT AACINCTTTA CAAGTCTTTG TAAAATTTTA AATGCATAAA GGGGGGTTGG GGGCAGGGGG ACCNCGGANG
TAGTTTAATT TTCGGAAAGG G

SEO ID NO:384: (Length of Sequence = 420 Nucleotides)

GGACTCCGTT CCCAAGAATA AGITTIGCIT GGGCGGAAAG TATGIGGTIC ATCCGAAAAA AAAGAAATCA ATGATTIGTG
GCAGITCITC ATGIGCTITT GGGCATTINC ATATCITCCT TGGAGAAATA TCAATTAAGA TCCATTGCCG TATATACATA
TATTAAAATT ATGGGTCATG TATTATGGCT CATACCTGTA ATCCCAATGC TTTTGGATGT TGAGGCGGGA GCNTCACCTG
AGGITAGGAG TTCGAGACCA GCCTGACCAA CGTGGTGAAC CCTGTCTCTA CTAAAAATAC AAAAGITAGC CAGGCATGGT
GGCATGCACC TGTAGTCCCA GCTACCCAGG AGGCTGAGAC AGGAGGAATT GCTTGAACCC ANGAGGCAGA GNITTCCAGT
GAGCTNAGGA TTGTGCCACT

SEO ID NO:385: (Length of Sequence = 404 Nucleotides)

GIGACAAATG TTAAGAAATT GIGTGTCAAG CAAAATACIT TAGAGGCCAA TGGGCCACAT GITTITAATA TCAAGAGATT ACACACAAAA TTINITTTCI AGCITCITIT GAAAAATCAG AATIGGGAAG ATGTATTCAT GAGTGACTGC TGCCCCCTTT GGITGGGACT CGITCCITCA GGITCATTAC ATGGICATCA ATAACCATTT CCTTGGTCCC TGCTTTTGTC TTGTCTGGACTCT TCTAAGCATT TGAATTTTTA GIATTATAAG AAAACTTAAT ACTTTNCTAT CAGTCACCAC ATACATGTGT TTCTATCTGT ACTACCACTT ATTAAAAGCN TTTTATCAAT AGCCNCCATT TTGGAGGGGG GGATTTCAAC TGGTGCCTNG ACTAGCAAGG AATT

SEO ID NO:386: (Length of Sequence = 267 Nucleotides)

GTCTIGIGGA CATTIACGIG GIATCITITAG AGCAAACACA GAGIGGITGC ATAAGCIGCA GIGITITIAGI ATCGGIGGGA CIGIGGCATG GCGIAGAGGA GINACAGICG CAAACTGATG GCCCAGCICI, GACCCICCAG GCAAGIGGAC TCCGAGGAGI ACCAGCAGAT CITCCCACAT GCGICGGGA GGGCICTGGG GAGAGICAGI GGGCAGGAGA GGGICAGCIG TGCAGGCICC AGGGCCCAGC CCCGIGCTIT CCCCTCT

SEO ID NO:387: (Length of Sequence = 384 Nucleotides)

ATTITAAATG ACATTITATI TAGGCCAGGG GACCAGGIAA CATTATTITIT AGGAGGAGAG CAAAAGGIGI TATATTACTG
CTTCTAATTA CCTAGAAGGA AAGCATTIGC TACACTGCCA TTATGATTGG CTGCAGCAGT TCAACCTGGC TCTCGGAATC
TGCCATTAGC TTGACAGCAT ACAGAGCACC ATATCAGGGI TACTATGGGA AGACTCTATT GTGGCATCAG AAACACAAAA
AACACTGGAT ACAGTTAGIT TCTGTTGACA GTTTCAGAAG AAAATCCCAC AGATTGGACA GGCTGCCTGC TGAAAGGGTT
GTCACTACAC ACAGCATGCC CTGAACCCTG GGAATGAAGT TACCCCTATC TGTGGTGATC AGGA

SEO ID NO:388: (Length of Sequence = 345 Nucleotides)

CTAAGATCAA ATGCAGGCAA AAGTGGTGAA TTTTACCACC TGTTTGTAAG TCTGGGTTTA TAACTTTACC GTAAATCACC
TAGAACACAG GCTAGCCGAA TCGGGTGTC TGGTATGGCA ATATCCCGAG AGCTAACCTG GGGCTGGGGC AATGTTCTGT
GGCTGCTGCA CTTGCCTCTA ACAGGCCAGT TTAAAAACGTC CAGCTCTCAG GGCCACATTC TCCAGGACAC AGCAGGGAGC
TCACAGTAGC TCAAGACCCG GCCCAGCCTC CATCCCCAGC CTTGGAGCTG TCAGTGCTCC CAAAGGCTGA AAGAATTCGG
TCTTGGCTGA GTGGACAGCC CCCTT

SEO ID NO:389: (Length of Sequence = 156 Nucleotides)

TAACCIGCCC CAGCAGIGCA IGCAGGAAGA CIICCIGGIG CAIGAGGIGA CCAATCIGCC GGIGACAGAA QVACIGATIG AGCGGGAGAA IGCAGCCCAG CICAAGAAGI GGCGGGAAAC GCGGGGGGRG CIGCAGIAIC GGCCCICACG GCGACI

SEO ID NO:390: (Length of Sequence = 364 Nucleotides)

GAGICIOGCI CIGICACCCA GGCIGGAGIG CAATGGCAIG ATCICGGCIC ACIGCAACCI CCGCCICCCG GGITCAAGIG ATTCICCIGC CICAGCCICC CGAGIAGCIG AGAITACAGG CACGIGCCAC CACGCCIGGC TAATTITGIA TITICAGIAG AGAIGAAGGIT TITGCCATGAT GGCCACACC CAGCCCAACA CIGGGATTCT TITATCCGCI GGCIGGCTCT TCCGCAGITG AATTGIGIGA CITCITCCCC TATCIGAGGC CCAGITTTTC TICA

SEO ID NO:391: (Length of Sequence = 325 Nucleotides)

GAGTGTCCAG ATGATGGCAG TGATGGCCCA TCTGGAGCGG CTGCTGTAAG GACACTGGCT GCAGCAGGGG AGGCACAGCC AGGCCTGCGC ACTAGGCAGA GCTGGTGTGG GAGCCAGGAG CAGATGALAG CCCGGCCTTC TACCAAGTTG GCAGTGCAGA AGGCCGTACT CCCGGGTGCT GATGCCGAGT TCAGTTCCAC ACCCTGGCAT CCCTGGGCTN TCAGGGGGCCC AGGAAGCCCC CCACCCCIGC AGENTICAAA GGGCCIGCIT CCCACTCCTT GGCCTTTCCC TCCTCCTGGG AACCATTCTG GGGCAGAGCA

SEO ID NO:392: (Length of Sequence = 371 Nucleotides)

ACATCCACAC AAGTACAAGA ATACAGAAGC TICTCTAGTC AGGATGCACT AAGCACCTAA TGAGTAAACA AACTTCAGCA
TATCCTCATT GITCTCATGG TATTAATTTG AAGATACTTA CCTTCGAACT AAATCTGGTT TTAGAAGAGC TGCTTGTTGT
TCAGCTCCAA CTGGTTGGGA TACAGGCTGT AAACAGTACA GACATAAAAC TTGCTATGAT AACAGTAAAA TTCAAGCTAA
ATATACAATT TGTTACTATT CAGAAAACAC GATAGTTTTG GTTACCTTGC AAACCTGGTA GGAATATCTA TGTTATTGAA
TGTCTGTATC AATCCTATTA TTAACATTAT TACCAAAGGT AAATAAAATT T

SEO ID NO:393: (Length of Sequence = 404 Nucleotides)

CCITITAGIA GCITCICIGA GGIGAAACCA CITCITITIG ACCATCIAGC GCANICINIC TITACATCAA CCATTIATITI
CAAGIGIAGI GIGCITCAGA GICIGAAAGA GCIATIGCAG AATIGCCIGI TGIGGCITIC TATGGACATI CACATGAAAC
CIGITACAAA CAGICCICIA GAGACAACIT TGGGIGGATC CATGAACICT GIGICTAAAC TGATCCACTA TGIAGGGIGG
CIATCCACIA CIGCAATGCG CITGGAGAGC AACAATACIT TCITGCIGCA CITTATITITIG GATTICIATA AGAAGGIGIG
TGACATATAT ATAAATNATA ACCITCCAIT AGIGGGIATT GITTCCTCCT GGGGATCCIT CIATTCTGCA CTCCTCAGCC
TGGG

SEO ID NO:394: (Length of Sequence = 416 Nucleotides)

GCCACACACT GGAGAGGGAG AGCTAGAGAG TGAGACAGCA GGGGAGCTGA GGGTGAATGG CTGCTGTTAG AAGCCCTGGA
GACAGCCTGA GGTCAGAGCC CAGCCCCACT CCTGGCTGTG TGATCTTGAG CAGGGCTGTT AACTTCACTA GGACTTGGTT
TCGGTTTCTC ATAGAGAATA GGTACAGTGT GAATTAAATA TATATAGCTT GAATAAAGTG CCCAGCTTGT GGGTAGCTGC
TGCCATCATC ATCACCATCA CCATCATCAC CATCACCATC ATCATCATCA TCATCATCAT CATCATCATC ATCATCATCA
TCTCAGGCAC AGGGGCTTTA AGGACAACAT GCCCAGTTTTA AGGANGAACA CAACTCTCTT CATTTATAGC GNCCCTCCAT
CAGTGAGTAG ACGCTT

SEO ID NO:395: (Length of Sequence = 315 Nucleotides)

AGRICARA TGTCTTARAC ATTATGGART AGGAGTGIAT GACTGACTAA CATCCAGTAA TCATTAGGGA AAACAAACAT
GAGTGAGGNC AACTGARATA ATTATGATAC AATTAAGGGT GGTAGGTTAC ATTTGTATAG TTCTTTARAA TATGCATTAT
TCCACATGAT CAGARATATA ARANGANCTA GACAGATACT GGTAGAGAGA CAATTAATTT ARATTTGTAA CATATTGCTT
GCMGCARGCA TTCARGTTGA GTGCTTAATG TGTATCGGTG ACTGCACTGT GCARATARAT TTGGGGTTAG TARGA

SEO ID NO:396: (Length of Sequence = 409 Nucleotides)

CTCCAGTTCT CACGTTAGGG TGCTTTCTTC CCCGGCAGAG TTTTTCGAGC TCATGAAGGT GGACTGCCTG GAAAGTACTC
TAGAAAAGTC ACTCCAAGCA AAGTTTCCTT CAAATCTCAA GGTCTCCATT CTCTTAGACT TCACGCGGGG CTCACGAGGC
CGGAAGAACT CCCGCACAAT GCTGCTCCCA CTCCTGCGGA GGTTCCCAGA GCAGGTCCGA GTCTCCCTCT TTCACACGCC
GCACCTCCGT GGGCTGCTTC GGCTCCTCAT CCCTGAGCGC TTCAACGAGA CCATCGGCCT CCAGCACATT AAGGTGTACC
TCTTCGACAA CAGCGTNATC TTGAGCGGTG CAAACCTGAG TGACTCCTAC TTTNACCAAC CGTCAGACCG NTACGTGTTC
CTGCAAGGA

SEO ID NO:397: (Length of Sequence = 414 Nucleotides)

ACAAGCTGTG TGACCATAGG CAAGTTTGAC CTTTCTGAGC TGCCATTTTC TCATGGTAAA AGAGAGATAC TAGAGGAACC TGCCTCACAG GATTGTCATG GAGAATAGAG GAGATGATAC AAGTGAAGCA CTAGGCAGCA CCATACTTGG AACTAAGGGA AAGCCCGCAG TCAATGTTCA GTATTGTTAC ACTTGCCAGA TTGTGAAAGA GCGCAGGCAA CCCTTGAGTT GAGCTCAACG CTGGAGCCAA GATCAATGAC AGAAGGATTT TGTTTTGAAA CAGCAACTAA TGACCAGAGA GAGGAAATGG GTCATGAAGC TCCATGGTGC CTTTCATGAA AATGAAATGT AAGGGCGTGA TTCAGGAAAA AGGGACCACG ATCAATACCA GCAGACTCTT CCCTTATGCAC TGGG

SEO ID NO:398: (Length of Sequence = 400 Nucleotides)

CATCAAGCTG GGAATGCCCT AAAGTGGGGG CGTGAGGAAG AGAAGGGGTG ATACCTAGAG GCTGGGGTAT CTCTGTCCCA
AGGAGACAAA CTATAACAAG ACCCAGCAAC TGAAGGGTTA ACACCTAGCA CAGACGTATA CCTCCAGGNT CCTAGCTGCA
TTTCTAATTC TGCTTCATCT ATGCTTGAGC ACTACTTGTT GTTAAATATA CTTAATATCA CTCTAGCTA ATTTCCTCTA
TGTAGATTTT TATTTATTTC TGAGGGCAAC CCAACTTCCA GGCTCTTGGA AGGAAATAGA CTGCAGCCCC TAAGTGTGAT
CAATACTTAA TTATAACAAT AATCACTAAT AATAACTTGT GCTGCTTCAT TGTAACTAAA ATGTACACTT TTACATTTTT

SEQ ID NO:399: (Length of Sequence = 324 Nucleotides)

AAATATTTAC AATTTTACAC CTTCAGGAAG GCTCCAAAAT ATAAACACTG TACCTCTCC TAGAGAAAAA AAAATTATTC
TTCTCTTCAA AAACAGGAAT ACATTCATTT TTTCTCACTG TGTGAATCAA GTAATTATAC AAATAAACAT CTGAAACATT
TTCCTTTTTA ATATATTAT ATAATATATA TTTNTAACAG CTTTACAAAT AAAGGCAACG GTCCTTTTCT AATTTTCATG
CCTCTCAACA GAAGGGTACA TGATGCTCCC TGAATTCCAG GGNTATTTTT TNCTCTCTAT GGTACTTTGT ATTTCACTTT
ACTT

SEQ ID NO:400: (Length of Sequence = 388 Nucleotides)

ATTAAATCIG AGITTIGITI GAGCATCITI CAACATGIAC CATATITATG ACAATTCICT TCCATAGGAT CTATCIGINC TGCAACAAGI ATTGATCITA CAGTAAAATT TITCACAAAT TCATTAGATT CTATGICICT TTTTCTGGIA GGAATTTTIG TGCAGGTAGC TATCTCTTGC CCTAGATTAT TCTCCTTGIT TAGCTGCTGA TTCTTAAACT GGCCTCTAGA TTTCCAGATT TCTTCCGGTA CAGACTTTCT CTTTGCAAGI NCTTCCATCT CTAATCTTTG AGATTAATCT TCTTTTGAAA TGTCCTGCTG CTCTACTCTT GTATGTCTTG GNCCCACGTT CAAGCTTCCC ATCTAGCAAA ACCAGGTTT CTAATATT

SEO ID NO:401: (Length of Sequence = 339 Mucleotides)

GITTATTECT CAAAAACAAG AATTCAGAAG CAAAGGTGGA GAGACTGTGG GITGGGGAGA TGGCAGGAAG GGGCCAAGGC CTTGTCCCAG CTCTCCCCTT TGTCCTTCTT CTGACCCTCC TGGCCGGAGT CAGGCCTAGG GCCAGGGCAT CTGGGAGGG GGCCACGTTCG TGGCCAAGGA ACAGTAGAG CTATCGGGGG CAGTCCTTGA GGGGTGCCCT GGGCAGGAGG GCCTGCAAGA TTTNCAGGGA GGCAGAGTTC CCCTCCCAGA ATCCAAAAAGC CGGTAGGGG GGGGCAAGG CCCCTCGTTT GGCAACTNAG AAGAGGCGGC TTTTGGGCG

SEQ ID NO:402: (Length of Sequence = 400 Nucleotides)

TGTCCAGTGT ATGAGGACGT CCCAGCGAGA AATGAAAGGT TCTATGTTTA TGAAAATAAA AAGGAAGCAT TGCAAGCTGT CAAGATGATC AAAGGGTCCC GATTTAAAGC TTTTTCTACC AGAGAAGACG CTGAGAAATT TGCTAGAGGA ATTTGTGATT ATTTCCCTTC TCCAAGCAAA ACGTCCTTAC CACTGTCTCC TATGAAAACA GCTCCACTCT TTAGCAATGA CAGGTTGAAA GATGGTTTGT GCTTGTCGGA ATCAGAAAACA GTCAACAAAG AGCGAGCGAA CAGTTACAAA AATCCCCGCA CGCAGGACCT CACCGCCAAG CTTTCCGGAAA AGCTGTMGAG GAAAGGGAGG AGGAGGACAN CTTTTCTGAC CTTATCTGGG AGCAACCCCC

SEO ID NO:403: (Length of Sequence = 416 Nucleotides)

AGITGACTGC TCTGATATGG AGAGACCTGT TAGTCTTGTA TATAGTGCCC AGCCGGAAAA AGCATCTCTT GAAGGTTAGG
GCATTTTGTG AGGAGAGCTC TAGGGCTATA TCAGTCTGGA GGTATGATCT CTGATAAAGA TCATAATTCT CATCTCAGTA
ATCTTCTTTA GAACAAAACA TTCTTCATTG TAAGCTTCTC ATTAACTGAA GGCCACCTGA TCTGAGATTT TGGCTCTTAG
AATACTCTTT NCTGTGTCTC AATCCTCATA TGGCTTACCT CTGAAATATA GAATATATTT CCTTGTGTAG CCTGGTAGAG
TTGGGTTTTG TTTTGTTTTT CAAACAGTAA CTTTTATTTG ATTGTAAAAC TTCCAGATTT CTGAGATGCC GCCTTACCAG
TCTTAAGGTT GATTTT

SEO ID NO:404: (Length of Sequence = 368 Nucleotides)

CCTCINACTC ATTERGATGA GIAGGGCGGA GGGCTTCACT GCCTCANTIT CCCCAACTIT GGACCITAAA TCCTCTCCIG ATGCCTCTCA GCCCAGCCAG GAAGGAGACC TAAGACCAAG AGGGATTTAA CAGATGCAGG ACACACAGCC TIGTCCTCAG ACCCCCCAAG TCTGAGAGAAA GCAAAACACT CACCTTGAGA GCCCTCGGAC TTGGAGGTGA GGTGCAGAAC CCAGGCTGGG TGTGTGCTGA GGGGTGGTGG GGGTGGGTGG TGCTGGGTGG CTGGCCTGGG AATACTTTTC TTAAGCTAAG GCTGGGGCTT AGGGGAGGGC CAGAGGAAGG GTAAATAGTT TGCCTGGGGG GGTGCTGG

SEO ID NO:405: (Length of Sequence = 395 Nucleotides)

GACAGGICCT CACTOTIACC ACAAAGCICA AGICAGCIIG GCCICICAAG IGGAGAGATA AICGIICIAI AGCAAGAAGI
ACAAAGAITC ICIGCAGACA AAACCAGCIA GCCAAGGIIC CACAACAIGI GIACACGIAI AAGICIGNIG GAICAGAAGA
AATAIGIACC CGGGAATCAG AIGIAGCCAG CCCACATACI AACAAACAIC AAAGCAAGCC IAGICAGAIT GAGICCCAIT
IGAACAAICI IITAIAAAGGI IICIICAIGI IAITIACAAI ICAAAGIAAA IIITACIIIAT AAGCAGCIAG GGGAATICII
TAITIAGIAA IGICCIAACA IAAAAGIITC ACAIAACIGG CIICIGICCA AACCAIGGAI ACIIGAGCII IGIGG

SEO ID NO:406: (Length of Sequence = 358 Nucleotides)

GATACCITAA TCTAAATTIT ATCITAATTI TTATTITTAT TICATIGICT AAATTITTAT CIAAAATTIT INCIAGCICT TTATTACACC AAGACAGCIT CACATTITTA TITATATAT GIACATCICA TGIAAGGIAT TACCGIATAT AAGCIAGIGT CATAACTTAA GIAGCCACAT TCATTCAGTA TGITTTATGI TTTCTCTCTG ACTGGATCIC TGATACATTC TTTCCTGTTC TAGCCIGCTT TATGCAAAAG GGCATTATAT GITTGICAAT CAACCAGGCT TCTGTGACTG TTTAGAAGGA ATTATGIAAA TATATAATCC NGTGGCCTGT TTCACTTTGG CCATGTTT

SEO ID NO:407: (Length of Sequence = 294 Nucleotides)

CIGIGIATAT TIAGIATCIT INATIAAGAA GACIGGITGA TATTIGCCIT CAGCIAATIT ATAGAAAGGA TGATCATCAA TGICICIAGI TITCITCIAA GIGGCITGIC TGIGCAGGIA CATATAAAAA INCAACTATA CAAATAGCIG GACAGITGAG TCICAACTAT GAAAATCITT TCIGGGATCA AGATCIAAGA AGITGGIGIG TGIATGAGIG CAACCCATCA TTCIATCCCC TAAAAAATCIG GGGITTCICA GCCCAAACAT TCNCACTAGI AAAGICAAGT TICA

SEO ID NO:408: (Length of Sequence = 367 Nucleotides)

GGCAAGGAAA GAGAGCTITA AATTGAAAGG TIAATTTCCT AAGAGGAACC TGGGCTGAAT GACTGCAGTG TIATACCCTC
CAATCITTGC AGGTGGGCAT GGAACACTGC TIGTATCACT CTGTGCACGG TATAAATCCA TATATCCACA AAAACACACA
TCCATCCATC AACATATACA TGGTTTGGGA TGAGCAGGTC AATAGTTTTG AGAGGGAGTT TGINCCTTTT TTTTTCTCAT
TATACTCTTA AATTGTTGTC AGTTATCAAA CAAACAAACA GANAAATTGT TTGGAAAAAAC CTTGCATACG CCTTTTCCTA
TCAAGTGCTT TAAAATATAG NCTAAATACA CACAGGCTTG AGGCAGA

SEO ID NO:409: (Length of Sequence = 233 Nucleotides)

AAGAGACAGG GNCTCATTCT GTCAACCTGG CTGGACTGCA ATGGTGTGAT CACAACTCAC TGCAGCCTTG AACTCCTGGA CTCAAGCANT CCTNCCACCC CAGCCTCCTG AGCAGTTAGG ACTACAGATG GGTGCCACCA TGCCCAGCTA ATTTCTAAAT TTTTTTTAGA GACAGGGTCT TGCTATATTA CCCAGGCTGG TCTCAAACTC CCTGGGCTCA AGTGATCCTC CTT

SEO ID NO:410: (Length of Sequence = 295 Nucleotides)

GACAGGGGT GGGGAATTCT ACTOCATGGT ATCITCAGAG CTAGGATAAT GCTCCTTATG CAATCCCACT GCATATGACC
ATGGCAGTAG AACAAGTTCA ATTACTACAC TGGATGCGTT AAGTGTGCTT TCCTAGCAGA AAGCACCAGG GTGGAGTCAA
CAGTTCACAT GCTAATACTT GGAAGTATTT CTAGAAGGGG GTGCTCAATA GAGGGCAGAC ATGATGCAAG NNCTTCATAC
TAGAAAGGTG TCCTGTGTGT GCATGCACAG CTGGATGGGG GCACACAGGA GCAAG

SEO ID NO:411: (Length of Sequence = 304 Mucleotides)

AATAAAAAGA CCATTAACTT AAAGTGGTGT TAAATGCTTT GTAAAGCTGA GATCTAAATG GGGACAAGGC AGGTGGAGGG
GAGGCCAGTG TACATGTAAA TGCCCACAGC CCAGCATTGG GTTTCCCTCC CAAGGNCCCA GCACCAACCT CTGAGCCCAA
GACCTTGCCT GAAAACAAGC AGATACCGAT TGNTTCATCC TATTTATGGA CATGTAGGTC TAGTTGCATT TTCACTNGGG
GGAGGGGGGA AGGTGAATTA TGGTAACTTT TAATGATCTA TTCAGGCAGT AGAGCTCTTA AGGG

SEO ID NO:412: (Length of Sequence = 250 Nucleotides)

CAGGIGOGCA CIATCACGCC CGGATAATIT TITTIGITIT TAGTAGAGAC GGGTTTCAA CATGCIGCTC AGGCIGGTCT CAACTACCGA CCTCGIGATC CGTCCACCGC GGCCTCCCCAA AGTGCTGGGA TCACAGGCGT GAGCACCNCT CCTGGNCACA GGINGAGACC CITTICTATAT AAGAAAGAGA AAAATGTCTC TNANTCACAA GAGAATGCTA ACAACGGGG AAAGCACAGA CACAAAACCTG

SEO ID NO:413: (Length of Sequence = 337 Nucleotides)

GTACTGGGAC AAGGGAAGGC AATCACAAAC AACTGCCCTC AGGAAGAACT CAGTCCCTGA CTGTAGTGTC TCTTCGGGGG
AACCAATGCC ACCCCCGTTC ACCCCCAGA CGGGCGAGGG GCTGCACCCT TAAAGCAGGC CATTGGGCCT TCCGGGCTCC
AGGGCCAGCC CACCCCGTTC CCGCTGGTGG ATCTTCTGGT GCTGCAGGAG GTGCTGCTTC TGGACAAAGC TCTTNTCACA
CTCAGTGCAG CTGTAGGGCC GNTCACCCGT NTGGATGCGC TGGTNCCGNA CCAAGTCAGA TGGGTGACTG AAGCTCTTGC
CACAAGTAAC CACAGAT

SEQ ID NO:414: (Length of Sequence = 304 Nucleotides)

GGITTAAGAA CIGCGITTIG GNGCCCAATC TITGGIGAAA AATATTITIG GGTCATCITT GAAAAAAATC CITTTCAAGG CAGACAGCAT TITAATGCIT TGICIGITTI TCCCTGITTG TCAGCTCTGN CACCAGCCIG AAAGATTIAA AAAINCAAAT TAATGGAGGN TTATTTGICC TNIACTCAGG TCACATTTCI GGGITTTAAT GAAGNGACAG ATGCIGCTCA TATACAGGAT TTAGCIGCAG TTTCTTTGGA ACTTCCAGAT ATTCIGAATT CACTCCACTT CIGCAGTCIA AATG

SEO ID NO:415: (Length of Sequence = 315 Nucleotides)

CGTTGTGGAG TGGGTGTCTT TGGATAGAAG GAGTGAGGAA CTGGGGGAGG AAGGCCTGGG GGATCCCCTG GCGGGGCTAC
TTCCTGGGCC CGGNATGGAC ACCTGGNAGC TGCTGCGNTT GTTGGGGTCC TGGCAGGGGT GTGGTGTGGC CCTCACCACT
CTGNTCACCT GCTCCTTCCT NACAGTGCCT GGAGAAGTTC CCTGTNATCC AGCACTTALA AAGTTCGGNA GCCTNCTGCC
CATCCATCCT GTCACGTCGG GCTAGGAGGG GNCAAGCCGA AGAGCCACCC ANGNCACANT TCCTGTGCCT GCCTT

SEO ID NO:416: (Length of Sequence = 343 Nucleotides)

GIATTICAAG TGITTIATIT GCITICIGIG GIGICAAATT TGGGGICICC TAGAGCCCAG CCCCAGGCAG AATCCGGCAT
ATCCTTCTCC GCCTGGGGGG CCCGGGACAC AGGAGTITCA GAAAAGGCAC TGGCAAAAGT NCTAGGGCGG GGGTCAGGGA
GAAGCCACAC TGAGCCTGGA GGGACCGGGC CCTCCTTCGG CGGCAGAAAA CACAGTCACC TTINGCAGGG AAGGGTTTTT
NCCTAGAAAG AAATTTAAGA CAAGATAAAA ACCTGAGATG TTAGAGGAGC CCCCAGAACC AAGCCGGTGC TNCCCTGGGC
AANCAGAGAG TGAACTCGGC TTT

SEO ID NO:417: (Length of Sequence = 202 Nucleotides)

TATTTCTCTG TGAAAAGGGG GAAAATAAAA GGAATAAAAT AAAAACGGCA CAGTTGACAC ACAAAAAAAAA ACCAATGATG
GGGAGGACGG GAGGTGGAGA AGTAAATGGG GGAGGGGNTC CCATTACAGC AGCAGGATCC AGTNACCCGG GATGCTCACA
TCINTCCCIN ACGTGGGGGG TGTAGCCCCCT TCCTCCCAAG GT

SEO ID NO:418: (Length of Sequence = 299 Mucleotides)

CACCAGITGG CIGCAGAGCT GICTICAGGA TCATAGGCCA CIGCCAGAGT CITOGAGAGA GGGAGAGATG GAGAGGAAGG
GAGIGAGCTT CGGIGGICIG ATTICIGGCT CAACGAGGCA GGAACCICAG GITCAAAAGC AGCIGACAAG AGCCCAGAGA
CCGICTICIT GGGGICCGGC AGAGCCITCI GGIGGCCCGA CACCCAGGCA NGGAGGGAAG GCCCTGAAAT CCCGITTIIN
TGGCAAGATT NGITICCAAG AGGAGATAAT GGCTCAATTT TGICTICCCCA AGTIGATCA

SEO ID NO:419: (Length of Sequence = 223 Nucleotides)

ATTGITGGGA AGGIAACATT TITCCATGGI TTINATITIN CCCAAAAGIA TITATGIATT GATTTATTIG GNTCTGACTC
AGGCGACGIA CTGIAAGACG ATATTACTIT AATCATCTIC ACATCAGIAT TIATGGAATA GCCACAGGIG CCTCATCCIT
TAGTAGGAGT TAATTATACA TITNCTGGCC GAGIAAACAT NTCCGAATGG TATGTATGIA TIT

SEO ID NO:420: (Length of Sequence = 406 Nucleotides)

TITIAAATATT AAGITAAGIA TATAACITGC CCIATGCCAT ATTGCTTTAA TCAGGGGACT GAGCATCACA TITIAGATTIG
ATGAGTITGG GAAAAGITCT CAAACATCCA GACCCATGGA CCITAAGAAT TACIGCAGAA ATCTCCTTCA ATATAGICAT
AGGGAGCATT AATGCTTTTG TGGTACTAAA CATATTTTTG AGCTTAGATA CAAATCCTTC TTGTCCTGAA CTGATAGGGT
AGGAATTGTT TAGGTGCTTC AAATCCAGAT CTTTCAGGGG TTGCCACCTA AACTCATCTT TATGAGTAAC TCTAGATAAT
AATACACTTT GGTATCTTCC AAAGIGCTTA TCTAGGCATG GAAAAGITCA GTAATTATCA TGAGGNCCTG TTTTTAGGTT
AGGTCC

SEO ID NO:421: (Length of Sequence = 281 Nucleotides)

ATCCAGATTA CTGACTTGTA CACAATGGAC CATATGTNCT GTCCAAAATA CACCTACATT ACACTGTGTG GAACANGAAC CTGGGCTTTG CAAAAAAGAA TTTATGATTA AAATGTAACC CCCCCCAAAA AAAAATGAAG CTTAGAATTA AAGGTAGCCT TTTACCCAGA TTGTTCACCA GNITGTAAAA TTCTAATATG GGTCATTAAC TGTTCACAAA TAATTCATAT TTGGNCTTAT GGTTTAAGGG CTCCAGATTG AAAAGGTGCT CTGAACTTCT G

SEO ID NO:422: (Length of Sequence = 220 Nucleotides)

THIGHATHIT TAAHAGAGAC GOOGHITIGE CATGITIGGCC AGGCTGGITT TGAACTCCTG ACTICAGGTG ATCTGCCTGC
CTCGGTCTCC CAAAGTGCTG GGATTACAGG CTTTAGCACT GTN.LTJ.C. GCCTGGCTGG CTGGCTGGCT GGCTTTCTTT
CTTTCTMTTT TCHNTCTCTC TCTCTCTCTC TCTTCCTTTC TTTCTTCCTT CCTTCCTTCC

SEO ID NO:423: (Length of Sequence = 391 Nucleotides)

CTGTCTCTTA TCTGGGCAAG CTTTAGACAT ACTAGCTTGG TTGGAAACTG ATATTAAAAG CCTAAAACAT GTAACTTTNC
TTATCAGGTT ACTATCATGG GGAACTAAAG ATTCCTGGTT TTTTGTATGT NCCATAACTA TACTTTAGTA AGCCCTGATA
TACGGTGTTA ATTTTCCTNC AGTGAAGGAA ACATGAAGAT ATATTTATGT GCACACATAC ATATATATGT ATATATAACG
TATATTCAAA CATGCACTCA GAGGAAGTTA GGGAGAGAG TTTCTAGCTA AACATGATCT TGTGAAATTC TTCCATATGT
GGAAAAGTCG TCAGTTCATC TGACATAGAG CAATACCATA CATATATACA CACAGGGTGC TATGGTATAC A

SEO ID NO:424: (Length of Sequence = 379 Nucleotides)

TOGOGRAGOCT GAGGCATGAG AATOGCTTGA GCCCTGGNGG TGGAGGTTGC AGTGAGCTGA GACCCCGTCA CTGAACTCCA
GCCTGGGTGA CAGAGCAAGA CTCTGTATCA AAAAAACAAA CAAACANACA AACAAAAAAG CCTATTATAA AACAATAGGA
AATGCTGAAG TCTAGTGCAC CAAGACATAC TGAATTTCAA ACTAAATAAA TTAAAATTAT CATGTACATT CCACTACATG
TCAAAACAGG AAAANCCATA GTATTATAGT TGATATGAAA TGANGATTAC ATACANCAGT AATACAGAGN AAACATGAAG
CTGCTTTATAT TTATTTGGGN ATAAGGNCAN CAGGGGCCAA TGATTTTCAC TGCAGATGT

SEO ID NO:425: (Length of Sequence = 448 Nucleotides)

TOCACAGGGC GGCCTGGGGT CTGGAGATGG GCGCTGGGCC CACGGGACGC AGATGGGGCC ACGCTCTGCC CGTGGCTGGC
CCACGTTCCT GGTCTGCAGT GCTGCCTCCT CCCCAGCACC CCTGGGGCAC AGAGGGCAGG GTCACAGCTG GGAAGAGGTG
GGGGGTAGAA ACCAAGGCTG GCAGAAGTNT AGCCGGGCTC CCTGATAAAT GCTGGAGGAC CCCAGGGCAC CTGCACTTAC
TGTACCCTCT CTGAGAGCAT TTGTATGATC TCATGTCTCA GCTCTNNGAG GCTGGAGGTC CCAGAAAACC AAGGTATGGG
TAAGATTCAG TCTCTGGGTG AGTACCCAGT TNCTGGCTTC TAGATGGCGC CTTTTTCCCT GTGTGTCCTC AAATGATTGG
ATGAGGCCAG GGTGCTCTCT TGGAGTCCTT TCTGTAAGGG CAACTGAT

SEO ID NO:426: (Length of Sequence = 417 Nucleotides)

GCCIGGNICA TOGCIGICCI TICCICCITG TCAGAGICAG TGACACTGAC ATTAAGGICA TCGAATATCA ACCAGGICCT
GAGGACCTIG GIGIGITICC TCCICCCTA GICTICCAGAC CCCAGCCTGI TCATTCCIGA GCTICCTCIG GCACCCCTTC
CTTGGGGCCA ACCCAAGIAA GAAATCAGCA GGCCCAAGGI GGIGCTIGGG AGGCCGGGC AGIGCCAGGG GCAGICCTCA
TACCATCCIC CCACIGGCIT CCCICCIGCC TGCICTIAGC CGCCACACAT ATCICAGCIG TCGAATCCGA TTAGGGNITC
TCNCCAGIGA GCCAGACAAG GAGGCCACIN GGCAGGGGAA AGAGAGACAA GGACGCCAAG CAGGGATTGG CAGAAGGAAG
GTGGAGACAT GGCTCAA

SEO ID NO:427: (Length of Sequence = 317 Nucleotides)

AACCCTGTCT CTACTAAAAA TACAAAAAAT TAGCTGGGCG TGGTGGTGGG CGCCTGTAGT CCCAGCTACT CGGGAGGCTG
AGGCAGGAGA ATGGTGTGAA CCCAGGAGGC GGANTTGCAG TGAGCCGAGA TAGTGCCTCT GCACTCCAGC CTGGGTGACA
GAGCGAGACT CCGTCTCAAA AAAAAGGGCT GATAATGATA AACAGTGAGC ACTCCGGTCC TTTTTCTTAC GTTTTCCTTT
TTTCCTTCCT CTCCACCCCA CAAGTTTTGC TTTTTAACCA AGGTGTCTCT GCTTGATGGA AATTCACATG CTAGTCT

SEO ID NO:428: (Length of Sequence = 296 Nucleotides)

GTAATTACAG TATTINCACG TAGAGACGGG TITCTCCATG TIGGTCAGGC TGGTCTCGAA CTCCTGACCT CGGGTGATCC
GCCTGCCTCG GCGTCCCAAA GTACTGGGAT "ACAGGTATE AGCCACCGTG CCCAGCCGGT TITTTTTTTT TITTTTGTAT
AGCAATGGAA GAATGGCCTC GTACACACGN TAGAGTGGAA AGTCCCAGGC ACCAAGGNIT CCCACCCTAG AAGCAAGGTC
AGGGCTTTCT CTTCATCCTT CCAGGGAGAG CACTGAGAGA TGATGGGGGG TTGGCA

SEO ID NO:429: (Length of Sequence = 422 Nucleotides)

GAGGGITGGA GACAGGAGAC AGIGGGGIGG GAAATCCAAA TCICAACIGC TITTGIACIG TCICCIGCIC COGAGIGCCC CANAGCCCAT GCAGACCCIC TGCIGICIAT GATATCCIGT TCAGCCCICA ACTITCICIA CCATCCCIGC AACIGGGGIT CACTGIGAGC CAAACCAGIT TGCITCITGI TITCIAAAAG CAGGCAGCCC TICAGGACTG TNICATICAA GGCATITCCC ACCICINITIC TCCACTCATA TCCCITCCCA AACIGCCITT CCTCATITCI CCGICTCCAG GGAGAGGGAC TNCAGGCTAC CACACNCAAA AATGGTGGIC TTCAGICCIA CGIAAGNCAA NCIGIGIGAG TGIGIAAGGA CINAGGGITG CTCACAAGGG GACACACAGA NGIGGATGCC AG

SEO ID NO:430: (Length of Sequence = 332 Nucleotides)

CECCEATCAGE ACCOGGRACA GEGECACESE CEACGIGEAG GEGITGEGGI CEGGGGGGGG CINGEGECTE GGGGTETECE
GGIAGINTEC COTECAGECG TEGAGEAGG TECTIGANIN INTETGEAGA AAAGAETETA GGACCECGCE ACCATGITEC
CEGAGECCCCC AACCOCGGGG CETECATOGE CEGANACECE TECCGACTEC AGTGGCATCA GCCACGGCCC AGTGCCCCCC
TEGGGCCCTGG NCACCATCGT GETGGTCINA GGCCTCCTNA TETTCAGCTG CTGTTTCTGT CTCTACCGGA AGAGCTGTCG
GAGGCGGACA GG

SEO ID NO:431: (Length of Sequence = 413 Nucleotides)

TGICATTATT TAAGATGGGG GACATCCAAG CACCIGGAAC AAAAAGGACA CTAAGAATGG GAGAAGAATA CACAAAGGGA
GGIAGIACAG GGCCAATAAC AGATTITIGG AATTITICAA ATTICICITT GAAGIAATTI TACAGICAGI AAATGGAAGI
GGAAAAGAGG AATAGAAGAG CATTICATIG ATTITITITTI TCTCTIGIAC TIACACATCI CATGACCICA TGITCCCAGA
ACTIAACACT TAGITGGGIT CTAGIAGATA TTITGGGITG AAAAGATGIT TGCTGTTTIG CATTITGTTC TGITTTGITG
GCIAGCCTGT GAATCTAGCA TTGIACGTGA GAAAGTGCAT TTCAGATTGA AAGCAACTGG GTTTTGGAAA TGAACTTCAA
TAACATATCC CAG

SEO ID NO:432: (Length of Sequence = 292 Nucleotides)

TTCACCGIGI TAGCCAGGAC GGICICGATC TCCTGACCIT GIGATCIGCC CACCTOGGCC TCCCAAAGIG CIGGIATIAC AGGCGIGAGC ACCGCGCCCG GCCACCATIC ACIAATITIC AAGAAATGIG GAAGIGITCT ATATITICIT CCCACTCCAT AGCTCCAACA TTGTTGGCTA TTATGAATTI GGCTATTAAG TGATGCCAAC AATATTTAAT GAAAAAAAGA TATAGCAGTA TAGTTGAAGG AGGAAGCCIGA AAGAAAAACGG TCCATCNGIG AGGAAAAAGGC CC

SEO ID NO:433: (Length of Sequence = 335 Nucleotides)

TTITTTTCTC AGCAGAGGAT TTIATIGGIG GICACCIGIG GCACAGGITA GAGGAGCCGA AGIGCIGINI TIGIGGIGGG
GGGGGGACCA CAAACCCCGG CCCIGCCCTC TIGCITACAT AGGCTTCCCG CCTAGAAGCG CANCATGAAC ATGCCGCTAC
GGATCCGGIT GIAGICIGGG AGCIGCTCAA TGGGGCCCATA TCCAGCCACT GCTGGGGCCAC TGGTCATAGA TGIACITNGA
GCAGATCTCA CGIACCACAC TGGCATCCAC CTCCGCAAAT CCGGCTTTCC CATTCAGCCA GGGGGGNATG CGGGNGGGCC
ATAGGTCAGG AGGCT

SEO ID NO:434: (Length of Sequence = 390 Nucleotides)

GITGCTGACT GCTGATTGGA GATGACGTGT ACCCATCCTC TAGACAGTCT GTGCTTTCC TGTCTTTGGA GCTTCCAGTT
CCACCCCCAT CAGTTTTTT CTGACCACTC CATCTTGCCT TATTTCTCTC TCTTTCCTTT TGACTGGAAG AGTACTCATTC
TTTTCTAACA TCTTTTCATA AACTGTTTTG ATTTCACTTA TATTGATTTT NAACGTATAA TGTGCTGGGA CTTGATTTCC
TCAGTTAGAT CAGAAGGCCC CTAAAGACAG GGCTCCATTG GTGTTAAACT GCCATCTTCA AGGTCTGGGA CTTGATTTCN

CTITITINAC CINCACAACA AGGCACTCCT CTIGCACCCA GTOGGAATIT CAGIGCCTGI GGGTCAAAGT

SEO ID NO:435: (Length of Sequence = 427 Nucleotides)

TCACTAAACA GIAGATTIAT TITATGIAGA TITGITITIC TATAAAAATA TATTIATGIG TICACAGGAA AAAAGITGAG
TTGGIATGIG GGGGTGACIT TCAGATACAT AATTAGITAA AGGITTGCIT ATGAAGITAG AAGGCATCIT AGCITTIATC
ATTITCAAAT TITITCITCAT AAAAAAGAAC ACCCGGGAC AAAGATAAGG TAACTGAGAT TATTATTAGC ACTITAGAGT
TGAGAGGIT TGAAATAAAA AGGITAAGCA ACCTGCCTAA TGITTATGIA CAAAATCAGT GCTGGAGCCA GGAAGAGAAT
TTGGATTITC CCAACCCTIG GACAGTTCIC TAGGGACTCA TGCCCACCAA CCATTCITGA GACTATATAC AATCAATTAC
ATTAAAATGA TATTGACAGT AGACTAG

SEO ID NO:436: (Length of Sequence = 249 Nucleotides)

TCAAATAACC AGGAGGGGGA CAGAAGATGA TGGCAAGGCA GACTGGGCAG TGTTTTNTAG ACACAGAACA AAGAATCAGA
ATTTGAAAAA AGANGAAAAA CAAATCINGG CAGCTGCAAC TTTAAAGTAT CACCTTTATA GATGGCAGG ATTTCCATTA
TGCAAATGGA ATCTAAGATT TCAATGTGNA ATCTTAGAAT GCAGTTTTAC CACTTGCAGT CINGTATTTG TGGTGGCCAT
GTGGTGAGT

SEO ID NO:437: (Length of Sequence = 404 Nucleotides)

GICATICACC CTAATCCCTC TITCACCTTC ACAGAACTIT CACACTCCAA TGTACTTGCT GTTTGTAGAT GCTCCTATAA
ACAGAAGCT CTGGGAGACA GGTGTCTTGT TATTCTTGCT CTCTGTCATA TCTCTGGGCC TATCACAAGT ACTCAAAGCA
TAGAAGTTCA ATAAATATGT GTTCAATGTA AGAAATGATC AGTGATTCTC AAGCTGCAGT GGCGTCAGGA TAACCTAGAC
AGCCTGTTAG CACGGNTCAC TGNNNCCCAC CCCCACAGTT TCAGGTCTGG TCTGGGNTGG GGCCCAATAA TCTGTATTCC
TAAAAGTCCC CAAGCAATGC TGGTGCTGTT CGTCCAGGGA CCATGCTTAA AGAACCACCC GGAATAGGAC TGGTGGACAA
AAGG

SEO ID NO:438: (Length of Sequence = 337 Nucleotides)

CIGCAACITA TACCITCCAT TIACIAAAGI COCAGIATGI GICAAAGIAG TITICATICC TCACAGCCAT GITATGAGCI AAATATCACI AACITICCCI TICAAAGGIG AAATAAACIG AGACTCICGA AGATTAACIT GCCCAAGGIC ACCTAGCTCG TIAGGAGGCA CAGGIGGGAC TIGAACCCAG TICITICIGA ATICAAAACC TCCAAAATGI CIGICACATC AAGCIGCITC AATGAGATGC TAGAAAATCA GGACAGIGAG CAAGCIGGAG ATAANGGAAG ATATGGAGGA ACACGGGAAG TGIGATCCTC ACACACATAC CCTGCAG

SEO ID NO:439: (Length of Sequence = 380 Nucleotides)

CATCGIGIAT GAAGGIAGCC ATTITGIACA TGITACCITG TITAAAAACAA AAGAGCAGCA ACATGITTAG AGIGGIGICT ATAGATAGAA CACIGCIGIT ATGITTAAGG AAAATTGGGG CGGGGGCAGA AAAGATCAAT ATGACTAGIT AGAAGACTAT TAAGGAGAAC TITGIACATG AATTATGGAT GIAAGAATTA GAAAAAAAAA GATGATCATG TICAGAATTI TAGCTITITIT ACAATTGIAG TGGAAAAGAA AACTCCTAGA GIAATGAATC AATGGIATCC TACAAAAAGA GAGGIGCCAA AAATACCATG AAATATTATA TTAAAAAAATT CACACGAATA GGIAGITATA ATATGIAAAG GCCAGACITC

SEO ID NO:440: (Length of Sequence = 335 Nucleotides)

CONTERNOTT TTATTGACCA GIGGACIGIG ACTITIGATG TAATTITATI TITGAGAGAG GGTONGGTO TGICACOCAG GCIGGAGIGO AATGGGGIGA TCITGGCICA CIGCAACCIC CGCCICACGG GCTCCAGIGA TICTCCIGCC TCAGCCICCC GAGIAGCIGG GACTACAGGI GCACACCACC TIGGCIGGCI AGITTATGIA ATTITITIGIA TGICTGIGGA GACAGGGITT CACCATGITG COCAGGCTGG TCTCAAACTC CTGAACTCAG GTGATCTACC CGCCTTCCAA AGTACTGGGA TTACAGGCAT GAGCCACCAT AATAA

SEO ID NO:441: (Length of Sequence = 356 Nucleotides)

ACTAATIGIG TITCIGCTIC AACCIGCAIT TOCAGAGGIG CCIGITGGIC IGIAATIGGI TCIGGCAIGI TIATAGGIAT
TACAAAACCA AGICTIATIT TGCATITCAC AGGATITAAG ATGAATAAAG TGATGIGGIT GIGCTAGGIT AGAGITGIAC
AAATTATACT CCCATGGCG ATGGIGGGIT CCCAGGCCTA CAACCIGACC TCIGCCCTCA CGCCCATCGI CACGCGCTCC
CCGTGCTTCA ACGAGGAGCC CCTGACGCTG GCCGCTTTC AGCAGGGNCC CGGCCAACCT CAGTGACGIG GTGCAGCTCA
TCTTTCTGGG TGGGACTCCC AATCCCCTTT CCCTTT

SEO ID NO:442: (Length of Sequence = 371 Nucleotides)

GATGATTITG TATCITTITC TATTIATIGA GATAATCAAA TGATTITIGI CCTTOGITCI ATTGATGIGA TGITTATIGA
TCATGITTAT TGATTIGCAT ATGGTGAGCC ATCCTTGIAT TCCTGGTATA AATGCCACCT GATCATGGTA TATNATCITT
TINATGIGCT ATTGGATTIG GITTGCCAGT ATTTTGTIGA GAATTTTTTC ATCTGTGTCT ATTACGGATA TTGGCCTGTA
GITTTTTTTG CTGTGTTCTT CTTTGGTTTT GATATCAGGA TAATGCTAGC TTTGTAGAAT GAGINAGGGA GGAGTTATCT
ACTCTTCAAT TTTTGGGAAC AGTTGCAGAA CTGTTGTGTG TTTTAGAACA G

SEO ID NO:443: (Length of Sequence = 329 Nucleotides)

TERACTECCT TIAITITITIN ATTICCCATC CAGAAACCCC AGTGTEATGG TGGAAGCAGC ATGAAAACAA CATCICCCCA
GGCCTCGCAG TAGAGGCGAA GGGAACAGAG CTGCCCATGT GCCTGINTCT AAAGACGCCA CCCTCAGGTT GATGTCACCT
GTGGGAGACC GGGTCCACCT ACAGACACCA GGTGATGGTC CACCAGGCCC CAAGCTCCAG CCTGCTGAGT CCCCAAGACA
CAGGCTCATT AAATAGCTTC GTACAAAAAAC CCAAGGGTGT CCCTCCAGCT GGTAAAAAAT TGGGCAATTT CTACTTGGAG
GTCTGCTGT

SEO ID NO:444: (Length of Sequence = 358 Nucleotides)

TITITITIA AGIACATAGG TCITTATITA AACACTGATT TITITITIAA ATATATACAC ACAAAACTTA GITCAGCAAG
GCTTCATGAT ATACACCAAT TCCAAAATAA AACAATCAAA TGGTCCAGGT GIAGAATGCC AGATTCCTTT TATCATCTGC
GAGGAAAAGA GAAGCAGGAT GAGGAAGAGT GAGGGAAGGC GGGGACAGGC TCTGCCCAGA NGAGCTGCCG CCTCCTGGCA
CAGCAAAAGGC TCCAGGCCTG GGCCCTGTTC ATATCTGGAG TCGGAGGGAG ACTCCCATCG GCCGCTTTGG GACTGAAAGG
CCCAAGGCTG TCACCAGGTC CCGGAAGAGA GGGAGGCA

SEQ ID NO:445: (Length of Sequence = 302 Nucleotides)

TCAGAACGGT GAGAAATAAA TIGCIGITGI TIATAAAGIA ACCIGITIAT GITATTITIT TATAGAAGCC TGATCAGAAT AAGACAATAT TGGATAGAAT ATTCAGGAAT GICTIGCCTC CAATGITGGC CCCCCTGTAC TGAGCTCTAA TCTACACTCA CCTAAAAAAAT TATAAAAATCA TAATAAAAACT GAAAAAGTCA AACTCTCAAT TGCATCCCAG CACAAATATC ACAGNIGNIT ATTTAAAAAAA TTATGTCAAG GCCCTAAAAA GCTAAAAATCC NCAGNICTGC TAATATTTCT CT

SEO ID NO:446: (Length of Sequence = 367 Nucleotides)

TTACTTCAGT AAAACAAGCC ACAGCAACAT TATGCTCTGC AGAGTCTTCT GTTCACCTTT GGGATGGAAA AGAGCTGCTT CTCCTAGGGN GGCAACTAAG GCCCAGGACC AAAACTCCCA TCTCCTA

SEO ID NO:447: (Length of Sequence = 295 Nucleotides)

CTGCAAACCC TTCAGCATTT AGCTAAAGIT ATTTCACAAT TCAATGCTTG TCTTGCACTG TCCTGGTCAT TTAAAAACTG
GTATCTCTTC AATAGCAAAT AGTATCATAA CAGACCACTA AATTTGGAGG GAAAGTGGTT TCTATTGCAG ATGGATGTAA
TTAAAAATTGG TGTAAATCAC AGGGTACAGA ATTCTTATCT GGTAAGAATT CTGACTTTTT TTTTAAAGAA GAAAAAATAT
ATCCAGATCT GTATCCACAT GCTATTTAAA TGCTCAGGNC AAAAAGAAGC CACTA

SEO ID NO:448: (Length of Sequence = 233 Nucleotides)

CAGAATCAGC CCAAATGCCC ATCAATCAAC TGTGCATAAA GAAACTGTGA TATATATATA TCATAGAAGT TCAAACAGAA AAAATACAAA AAACTTAGCA GAGGATTGTA TCCTTTGCCG TTTATTTTGA TGACCATGCC ATCTTCTAAT CCCCAGAAAA AAACTGGAAA ACAGAATAAA TATAATTTNC TGATTATNCT TATGTAACAT AAATGGAATA TATATATATA TAT

SEO ID NO:449: (Length of Sequence = 341 Nucleotides)

ACTICCTICC TCAGGCICCI GIACCAATCI TCAATICACI TGGGATGICC TAGICIAAAA CATITATITC ATTIGAAAGG
AAAAATATCA ATTICIAICI AAATTGGAGI AAGATCAAT TCAGATGIGI TTATITIACAA AACATAAGII TGITATITAT
CTGTGTITIAA TITGATCCNG GAACATTACA TGIAAAGAAC ATTCCATGIA AAGAACCAGG CAACTTGGCC AGGCATGGIG
GCTCACACCT GNTAACCCCA GCACTTTTGG GAGGGCCAAG GCAGGIGAAT TGGTTGAGAC CAGGAGGITC AAGACCCAGC
CTGGGGCAAA TATTGGCGAA A

SEO ID NO:450: (Length of Sequence = 313 Nucleotides)

TTTTTTTTT GACACAGITT CCAGICCIGG AAACCITIAG CIAATCITIA GCATTCCITC AATGGIGGGA ATGGGCAACA
GATCACCATA GIATIAATAC TCIGIGIAAT TITATCACTA GAATGGITAA TITCCATATC ATAGIAGAGC TGITGCAGAT
ATTTIGAAAT CCCATTATAC TCACIGCCAC TTCAAGATTA CIGIAGITGT TAGAACAGCT GCTAGATCIT ATTACTTAAT
AAATTAATAA AGTGIGAATA TAACTATATA ACCATTITNA AAATGITTTT TGGATAACIT TCAATATAAT TGG

SEO ID NO:451: (Length of Sequence = 351 Nucleotides)

GOSCOGGCIC CIGGGGACCC ACCCAGCICA TICGCCGAGC GGCICCCCTC CIGGGGITGA GIGICCIGGG CCIGAGICIG CAGCCICAGC CATCIGITCC CCAACITGAT CICCCACIGC TAGITACAAA CAAATCGCCC GGCITGIGCA AACCICCIGG GCICAGICCC CAGICCCGCG GCGCATCAIT TCATTCITIC CIAGCCIGIA ACGITTCICC TGAAAAAATCI ATTGITAGIC TAATATGAAT TICCIAATAT GIGACTIAAG GCITTTCICT TGCIGCTTIT AAAATTTICT CITTIGICIT TGACTTIGAC AATTIGGCIA TAATGIAIGI TGGAGAGGCC

<u>SEO ID NO:452:</u> (Length of Sequence = 363 Nucleotides)

GACAAGGGAG AATTCTTGCT TTACCTATGG ACTGGCTTAA GCCGTGTGGC ATCCGAGGAA TGTTTCAAAT GTGTCTGTGT
TTCTCTTTAC ATTCCTTATT GTACCTCATT GTTCAATTCA CTTTTGTAAA TTCCACCTAA CATTTAATTA TTTTAAATTT
CTCCGTCATG AAGTTATTTT AAGACACTGG AATAAGTGCA GCTTTGTTTA TAACAGCATA GGATTATAAA CAACCTAAAG
AGTCAGCAGT GACATTGATG GCACATGCAT ACAATGGAAT ATTTTGTAGC TGTTAAAATA ATAANGAAGA TCCTGCTCTG
TGTATTTGAT ATGGGAAGGC CCCCCAAGGT CTACAGTTAA GGG

SEO ID NO:453: (Length of Sequence = 382 Nucleotides)

ATGAGGGAAA AGATGGTGCC ATTGAAGATA TTATCACAGT GCTGAAGACT GINCCCTTTA CTGCTCGCAC CGCCAAGCGT
GGCTCTCGGT TTINCTGCGA ACCTGTTCTC ACTGAGGAAT ACCATTACTA AACTATTACT CTTTCTCACC TGATGCTCTT
AAAAGATCTT AGAAACCAAC CATACAGACG AGCCGATGCG GTGAGGAGAA GCGTCAGGCG GCGCTTTGAT GATCAGAACT
TGCGTTCTGT TAATGGTGCC GAAATAACAA TGTGAACCTG AGACTGGCCT GCAATGAATA CAGGGGTGTG CGTGTTCAGG
AGGTTTTCTG TTGCGGTCAC CCATGATGGC GGGCCTNCCC ATTTGGGCCA ACTTTTCCTG GG

SEO ID NO:454: (Length of Sequence = 391 Nucleotides)

SEO ID NO:455: (Length of Sequence = 282 Nucleotides)

TTGAGIACTO ATTTGAGGAC TGCAGTCATA GATTTAAAGT GIAATCAGTC AACTCAGTGG AATTACTTTC TCCATTAATC
TTAAATTGCT TCAGGACTGT TTCAGCCIAA GCCAGTAGCT GGGTTTAACC AAATTTGAAG ATTTINCTAG GAGAGTTTGG
CACGAGGAGA GAGGGCCAAA GGCGTGTAAG GCAGTGTTTA TAACAGTGGC CCATGGAATT GATCATGGGT AAAGAGAAAA
CAAGGACATG CGAGGAGGTG ATAAATAGAN CAAAACAAAG CA

SEO ID NO:456: (Length of Sequence = 340 Nucleotides)

CTAACITATG TITGAGATCT TCAATGAAAT TAGITACTAA TATTINGCIT TATTCITCTC AAAAGATTTA ACATGATAAT
TCTGACCTAA TCCAAAAAAA AAAAATTCAT GGGCCACTGT TITGCATGIA ATATGIAAGA NCICACCTTG ATGITAAACT
CCAACCCTTG GCTGAAACAG GTTAATGATC ATTTGINGTT ATTTATTTCT ATAAATAGTT TGAAGTTGGC CAGGCCTGGT
GGCGTCTCGC TGTGTCTCCC AGGGTTGGAG TTCGGTGGCG CAAATCTCGG CTTCACTGCA AGCTTCCGCC TCCCCGGGGT
TCACACCATT CTTCCTGCCT

SEQ ID NO:457: (Length of Sequence = 338 Nucleotides)

ATGAAAAAGT CTCCAGAGAT TATCAGTGGG CGGATGACAT TTGCCCTCTG TTGCTATTCT TTGACATTCA TGAGATTTGC CTACAAGGTA CAGCCTCGGA ACTGGCTTCT GITTGCATGC CACGCAACAA ATGAAGTAGC CCAGCTCATC CAGGGAGGGC GGCTTATCAA ACACGAGATG ACTAAAACGG CATCTGCATA ACAATGGAAA AGGAAGAACA AGGTCTTGAA GGGACAGCAT TGCCAGCTGC TGCTGAGTCA CAGATTTCAT TATAAATAGC CTCCCTAAGG AAAATACACT GAATGCTATT TTTTACTNAA CCATTCTATT TTTATAGG

SEO ID NO:458: (Length of Sequence = 370 Nucleotides)

GITTICITIC GEAGCIGAAC CAAAGAATGI GCACCCICIT TCTCIAGIGC TGIGGIGICI GCTIATITIT GIATTIGIGC
TTTCCATCCA TCTTCIGIGA TCACAAGGCA TTCTTAAGGI TTTCTAGCAC GACTIGCOGA CATCCAGACI CGIGGGGGGC
CCACCCATGG CTCGGTAAGC CAGCAGCCCA GGGCACTGGC ACTACCATGA GGCACTGCAT TAATTGCTGC ATACAGCTGT
TACCCGACGG CGCACACAAG CAGCTAGTUA ACTGCCAAGG GGGCCCCCCAT CACCGTCACC AGGCGTGCCC CACGTTGCAA
AGGAGGAAAA ACAAAATTCC TGGTTTCCGT GTGGGACAGT AAAGCAGATG

SEO ID NO:459: (Length of Sequence = 339 Nucleotides)

ATTITICCTAG AACTGAAATC ATCTACGGIT CTCAGAGCTA AACTTCCAAA GCTACAGTCA GCAATTITTC ATCAGAGCCC AAGGGAGAGG GGCCAGGGIA AAAGAGACGA GACTGTAGAG AGACCAGTAG GAAGAGGGIG GGAGAGGGCA CTTATTTCTC TCTGTCCTCT CAGTGGGITA CAAATCAGAT CTGGTGACAA CACTGAGGGG GCCAGGTCAG GGTATGTNGA TGAGAAATGA CACTGGAAGG AACATCAAAG CCCAGTGAC AAAAAGAAAG TCATCAAGCC CCAAATAGAA GGGGGAGCCT CCCAGTGCAC CTCAGAAAT

SEO ID NO:460: (Length of Sequence = 380 Nucleotides)

GAGCITTICC ACTGCAAAAG GAACAGTCAG CAGAATAAAC AGACAGTTAG AAGTACTTCC CTATGTAGAG ACACACTCAA
GIGAAAGGGA ACCAGGCTCT ACCACTTGAA ATAAGGAGTA TCAAGGAACT TGTGGACAGC TTTTAAAACT ACCACTGGCA
ACTAGGTCTT GAGGTGGATA AATGAAGAAA TTTGGGGAAAT CTCACACTGG AGATGTTTGA TGTAGGTAAA TGANCTGAGA
TTCATTAGGT GTGAAATAAT GAAGTGTATA TATAGTTCTG CATATACATG CCTGGGGAAG GTATAATATT CAGAGGCATA
CTATCACTCA ATTTGTATCT GCTGTGGGCC TCAGACAGTA CAGGGGCAGT GTTTGCATTG

SEQ ID NO:461: (Length of Sequence = 317 Nucleotides)

GICATTAAGA AGCCTTTATT GGGTTATATT CAATTTGACC TCCCACCAAA TTAAGCGGGA AAAAACAAAA AAATAAGAAA TCCCAGTAAA AGAGCCCCTC AAGATTTCAT AAACTACAAA CTAAAGCTGC TAGTTAATAA GGAAATGGCA GAATTTTCAG AGCTGTATAA TACAAAAATT CCTGTAATTT AAGCAGATGT TTTCCTCACT GATGACAAAT CTTCCAACAC AATGTGAAGT TATGCTACTT GGGATATTTG TAGGCAAAAC CATTTTTTTT TTGTACAAAA ACAAAAGCAA GGGACCNTGG AAAAAAA

SEO ID NO:462: (Length of Sequence = 261 Nucleotides)

ARABAGECCA TARATCCTIN CCCTCETEGA ECITACCTIC TARTARGEAG AGACAGAGEG TARGARACAA ACARACAARA
ATATGINAGT TARCACAGAG TETTEGAGEG TETCAGETEC TATEGGAGAA ACCTEGAGCA TETCARGERE AGAGCAGGCA
AGAGGGCATT CTGGARAGEC CTAGGANGAT GETGACATTT TACCTTCATA TCCACCAACC CCCAGCACAA AGCATTTTCC
AGAGGRAGIC AGAGGAGGC A

SEO ID NO:463: (Length of Sequence = 387 Nucleotides)

ATACAAGTAC ATCCAGGAGC TATGGAGAAA GAAGCAGTCT GATGTCATGC GCTTTCTTCT GAGGGTCCGC TGCTGGCAGT ACCGCCAGCT CTCTGCTCTC CACAGGGCTC CCCGCCCCAC CCGGCCTGAT AAAGCGCCGC GACTGGGCTA CAAGGCCAAG CAAGGTTACG TTATATATAG GATTCGTGTT CGCCGTGGTG GCCCAAAAACG CCCAGTTCCT AAGGGTGCAA CTTACGGCAAA GCCTGTCCAT CATGGTGTTA ACCAGCTAAA GTTTGCTCGA AGCCTTCAGT CCGTTGCAGA GGAGCGAGCT GGACGNCACT GTGGGGCTCT TGAGAGTCCT GAATTCTTAC TNGGGTTTGG TGAAGATTTC ACATACAAAT TTTTTGA

SEO ID NO:464: (Length of Sequence = 397 Nucleotides)

GTTAGCCGTG GGCTGTGGGC GTCGCCTGAA CGTACCAGGT ATTGTGGCTC CATTGGCTGA GGATGCTTCT CCAGCGAAGG
AGGCAGGGAG CCGGGGAAGT GGGGTGGGGT CGCGACACCG ACAGCAGCTG CCAGACCAGC CATGCTGCGC TCAGCTCCCT
CAGGCTGTCA CTCTTAATCA TCATGTCACT ATCTCTGGGG CGTGTCAGTC ACCATCAACG ACGTGTCCCC CAAGCTGCAG
AGGACGCAAA TCCAGCTCTC CAAGAGGCTC TGTTGGCCCT CTCCACATGG GCTTNAGGGT CAAGGGTTGG GGGCACGTTC
GGACCGNCCT TCCTGNCTCT TINGAAGAAG ATCCTCCAAN GTNCCCGGCT TCAGCTTCTT CCGGGCCTCT TTTGGCA

SEO ID NO:465: (Length of Sequence = 320 Nucleotides)

SEO ID NO:466: (Length of Sequence = 352 Nucleotides)

CATTGUATTI CCCTTCTICA AATUAATIAC CUACCAAAAA AUGGAAAAGA ATTUTACATG CACTITAAAA TAGUAAAATG GAAAGIGAAT TITUTAAAATA TAUGCATTAA AAGITTACTI TAATTICCAG TGGGACTICC TITATGAAAT TITUCCATAAC CICTUCCIGG AGIATTACAA GATCTCCAAC AUCTCATAAA CIAATTGIGA TATTAGIGGA ACCATAAGCA AATGUATATT TITAGIGGAA AUGGATTATG AATGAAAGCC AAGCACCITA CITUAAAGCC AAAATATGAG ATTUTCCATT AAAAACCATT GGTCCATAAT AGGGAGGGG GITTITTAAT TI

SEO ID NO:467: (Length of Sequence = 352 Nucleotides)

TGAAAGGCAA AAAATAAATA AATAAAAATA AATACCATTT GCAGAGACAG AGAAACCATC AGAAGAAGAC AAGCAAGGTT
GTTTGAATTA CTACGCCTAG AATTTAGAAT AACTACTATG ATTAAAACGA AAAAGGCTTT AATGGATAAA ATAGATAGCT
CCTAATAACA GATAGTAATA ACATATGGGT AATGTGAGCA GAGAGATGGA AATCTTAGAN CAACAACAGC AACAACGNCA
AAGCGTTAGG GATCAAAAAAC ACTGTAACAA AAATTAAGAN TCCCTTTTAT GGGCTTNTTA ATAGNCTNGG ATACAGGTAA
GTAAAGAATC CCTGTGCTTT AAGGAGCCAT CA

SEO ID NO:468: (Length of Sequence = 336 Nucleotides)

TGACATCIGO ATCITACATT ATTAAAIGCA AAGGAATATO AAAGACICCT CIGCIAGAAC CATTITIATT CATAAAGICA
CATTATCATT GIAGAAGICT TGIAAAAAIG CTACCIGAAA TGAATTATGT COGICTICCC ATCIGGCITA CAAAATTCIT
GAGGAAGCAT CIGCCICGIA GCICITTATO TTTCIATITO CTACIACAGG GACAATGIAT ATGGAAAGAT AAATGIGIGI
AGGIGIATAA ATTCICAATA AATATTIGCT GAATTAGATT GIACAGITGT TATCITITAA GWITAACTCA TCCIGAGGIA
CATTITATIA TTGGGC

SEQ ID NO:469: (Length of Sequence = 156 Nucleotides)

GACCEATETA GAATTCTETC TEGAGACETT CTCCCCTTCA ATTCAATEGE AAGEVICTTT TCTEGCATEA NCTCTCCEAT
GTCTAATEAG CTCTEAGCAC CATCCATAAG CTTTNVCACA TTCTTTANAT ATAAAAGETT TCTCTCCACT GTGAAT

SEO ID NO:470: (Length of Sequence = 350 Nucleotides)

TTCTCATGTC TGAATTTCAC ACGCACAAGT CTGAAATGTG AAGGTTTCTT AATGTTGGTT TTATGGTTCG TGTAAGATTT
TTGGGAAATG AAGGCCTCTT CATTAGGATA AAATGGTCTT AACTTCCCAG AGAAGAATTT CCTGACAACG TGGCTGAAGT
TAGATACAAA TGTTAATATA GAAGANTGCT TTTATTTGAA TTTCTAGCAA ATGGTTTTCA ACTACTTTAA ATATGACCNA
CTTGAAAAGTA TTATTCCINT TTTAAAACTA CTTTTNATGT ATAGATCTAA GGTCTGCTTG AAGCTAGTAG GTTAAAGTGT
TTGAGAAAATA AAGGCAAGAT INTINCNITA

SEO ID NO:471: (Length of Sequence = 270 Nucleotides)

GGAGCAGGGC TGGGAGTCAG TGGGAGATTG GGAGTCCAAG TCTGGACATG TTACATATGC TATGTCTATT ACAGATCTGA
GTATAAATGT GAAGTGGAGT TTTACCACGT GATTCTGAAG TTCAGAGAAG AGGTACAGGT TAGAGATAAA GATTTNGGAG
TCACAAATAT AAAGATGTAT GACTTNATGA GATTACCAAG GAAGTGGAGA TTAATAGCAA AAAGAAAAGT TTCAAGCTTC
AAGCCCCGAA GCATTCTAAT GTTTACAGCT

SEO ID NO:473: (Length of Sequence = 345 Nucleotides)

TITATIGIAG TICAAATACA TAAACIGAAC ATICAAACAT CITAAAATTA AACITTAGCA ACAAAGITTA ACATICAAAC AGGAGTATAG TITACAAGAA ACACCCAGAA AGGIAATTIG TIGICTAATC CAGAATATIG ATAAAGATCA CITAATGGIG AATAAAATAT GITTAACCAG TIGITCTATT CIGICCAACA TIGITAGTTAT GACCGIGGIT CCATACCIGA GAAGAAATTA CITACATAAAT CITCICTTAG GCTAAACAAC ANGACTCGGI CIATAATTCA GAGGGGVIAA TCAAAGCACG TAAGGGIACC AAAATAAAAC TAATCIGATC TITAG

SEO ID NO:474: (Length of Sequence = 433 Nucleotides)

CAGAATTAGA GCTGTACCCC AAGGGGGAAT TCTGTCCTAG GAGACAGTGA GINCTAAGTA CACTCTGGAC AAGCACCAGA
CACAGAAGCT GCCTCAGTTT GTGCTCCCCC TGCAAAGCAG AGCCTGAGAC AAGGATTTGG GTACAAGGAG TTTCACTCAA
TATTATATTT CCAAGATGCA CCCATGCTTT ATATGGCTAT AGTGCATCCA TTTTACTGCT TTATACTTTC CATTAGGTGA
CTATATTAGT ATATATTTAT AATTCCTAGG TCTTTTTGTT CTCTTATTTG TTAATAATTA TAAACTCCAA GCCCATTGTG
GTAGATTGCT ATTTCTCAGA GATATTTCT GCTCCTTCCT GGGGGACAAT AATACTNTTC TCCCATCAAT GGCAGATGIN
GGGCTTGTNA CATTTTCTGG TCAATGGAAT GAG

SEO ID NO:475: (Length of Sequence = 427 Nucleotides)

GATATEGITT GIGIECCCAC CCAAATCICA TCTAGAACTG TAGITTCCAT AATCCCCACG TCGTGGANGG GACCIGGTGG
GAGGIAATCG AACCATGGGG GIGGITACCT CCATGCTGTC CITATGATGG TGAGTTCTCA TGAGATCTGA TGGTITTATA
AGGGACTITT CCCCCCTTTG CTCTGCACCT TTCCATGCTG CCACCACGTG AAGAAGGATG TGTTTGCTTC TCCTTCCACC
ATGATTTAAG TTTTCTNAGG CCTCTCCAGC CATGCTGAAC TGTGAGTCAA TTAAACCTCT TTCCTTTAAA AATTACCCAG
TCCCAGGNAT GTCTTCATTA GCAACCTCAG AGCAGATTAG NCACAATTCC ACAACTTGGA GAATNGGTGT TCAAGTTTCA
CTCTGGCCTT NAACAACCCA AAATTTA

SEO ID NO:476: (Length of Sequence = 351 Nucleotides)

CECCECTAGE GOGGENEGGE GIOGGEACEC OGGETAGGE GOGGETCATE TEGCOGCTCA CEGTCCCCCC GNOCCTGCTE CTGCTGCTGT GCTCAGGCCT GGCCGGACAG ACTCTCTTCC AGAACCCAGA AGAGGCCTGG CAGCTGTACA CCTCAGGCCA GGCCCCTNAC GGGAAATGCA TCTNCACGGC CGTNATCCCA GCGCAGAGTA CCTGCTCTCG AGATGGCAGG AGTCGGGAGC TGCCGCAACT NATGGAGAAG GTNCAGAACG TCTCCCAGTC CATGGAGGTC CTTNAGTTNC GGACGTATCG CGACCTCCAG TATGTACGCG GCATGGAGAC CCTCATTCGG A

SEO ID NO:477: (Length of Sequence = 333 Nucleotides)

GGICTCACTC CGICATCCAA GCTGGAGIGC AGIGGIGCAA TCCTCAACTC ACTGCAACCT CCGCTCCCGG TTTGAGIGAT
TCTCATGCCT CAGCCTCCCG AGIAGCTGGG ATTACAGGCA TGAGCCACTG TGCCCAGCTG GGATATAGAA TCTAAGAGIT
GATTGIGGAA AACACGIGAA TCTATTGCGC GCATTTNTCA TTTAGCAAGA TGGCAGCAGT CCAGCTGITC TTTGCAGCTG
GAGATGAACT TTTAAAAATC CCCTTCACAC TTAATGIACT GACCGAGACA GAAGIACCTG AAAAACAGCT NIGCATGGCA
GGCCCCGCAA TAG

SEO ID NO:478: (Length of Sequence = 458 Nucleotides)

ACATGITAAA ATAAGGTAAT ATGAAATAAT CTAAAAAAAA AAAAAGTGCA GAACCAAGAC CTCTGTGATA ATCCTATITA
AAAAAATAGC TACAATTITA GITAGAATGT TTCCCTTATG AGAAAGCATT TTCTGCATAA CTTTTAATGT ACTGACCTTT
TCCAAGCTTG CTGAGCTGGC CTTTGTCTCA ACTCACTTGG GACACCCTTT CCTGTGCCTC ACCAGGGCCC ACCCCAAGTC
CCAGTTTCTC TAGGGGGTCT CTCGGGACCC CTTGAATCCC TTTNCTGATT TGTGCTGCCT TTAGCAGNCG GAATGGGCTG

GCAGACCACC CTACATNCTC CTGTGTGTGG GGACACTGTC AGENTGTCCT CCCTGCATTA GNCTCTGCTG AGTTTCCTAC CATGTGNCCA GGATGGNGTC CATAGTCGGG GCATNAAGGA CTTAGGATGG GCCCAGTC

SEQ ID NO:479: (Length of Sequence = 360 Nucleotides)

SEO ID NO:480: (Length of Sequence = 322 Nucleotides)

SEO ID NO:481: (Length of Sequence = 369 Nucleotides)

CCTGGGCAAA GCATTGATCT GGTAGCCTTG CTCCAGAAGC CTGTTCCTCA CAGTCAAGCC TCAGAAGCCA ACTCCTTTGA
AACTTCCCAA CAGCAGGGCT TTGGCCAAGC CCTTGTNTTC ACAAATTCGC AACACAACAA TCAGATGGCA CCAGGGACTG
GCAGCTCCAC TGCCGTCAAC TCCTGTTCTC CTCAGAGCCT GTCATCCGTC CTTGGCTCAG GATTTGGAGA GCTTGCACCA
CCAAAAAATGG CAAACATCAC CAGCTCCCAG ATTTTGGACC AGTTGAAAGC TCCGAGTTTG GGNCAGTTTT ANCACCANCC
CAAGTACACA GCAGAATAGG TACAAGTCAA CCCTACAACT ACTACTTCT

SEQ ID NO:482: (Length of Sequence = 255 Nucleotides)

GAGAGAATCT CGCTCTGTCG CCCAGGCTGG AGTGCAGTGG CGCAATCCCG GCTCACTGCA ACCTCCGCCT CCCGGGTTCA
AGTGATTCIN CTGCCTCGGC CTCCCCCAGTA GTTGGGATTA CGGGTGCACA CCACCGCACC CGGCTGATTT TTTGTATTTT
TGGTAGAGAT GGAGTTTCAC CATGGCTGGG CTGGTCTTGA ACTCCTGATC TCAGGTGATC TGCCCGCCTC AGGCTACCAG
AGINCTGGGG TTACA

SEO ID NO:483: (Length of Sequence = 353 Nucleotides)

CTGGATAATC AGGCCATGT GCTTTAACAG GATGTAAAGG GGAAGCTCAT GATTAAACAT GGGAAATATG CAGCAAATTG
CAAGACCTGA GCTTAACCGC ATAATTAGAA CATAATTTIN CACTTCTTCC AGAGCATCAG CCAAGCAAAG GACTGAGAAA
TCTGCAACCC AATTGTCCTA AAAAGAAACT TAGGCTTCAC ATTTGTGACA TAATTTCTTT TAAAATGAAT ATAAAATTTT
ATTTTTNATA TTTGTAGAGC ATAGGATGAT TGAAATCCAG TTGTTGTTTT ATCTGACCTC CATATCTAAT ATGGCTAGTG
CCGTTACTAC TCTACAGAAC GCGCAATAAG TCA

SEO ID NO:484: (Length of Sequence = 371 Nucleotides)

GACCCAGAAA ATGGAGCTAG CTACATTTCT CACACTTACT GTCATAATTA CATGITTATA TTCTATTAGT TGTAATTATT
TTTCACCTAT CCTCTCATTA GAATGITATA CCTATAGAGC AGATACCATT CCAGITTTAA TTTTTTGCCC CGACTCCTAG
TAAGTACGTG ACCTATTACA GGGAACTTAA AACAAACAAA AAGTCTGCTG AGTCTGGGAT GTTTTAAGGA TCGAAGGAAC
ATGTTGGTCC AATTTGCCTT CACAGAGGGT TACCTCTGCT TTTCTACCGA ATGTGGAATT GCTCCCATGT GGATTTTNAA
GGAATTCCAG TCTACCCTCA GGGGAAGGNC CACATGTAA1 GCCAGAGGTC T

SEO ID NO:485: (Length of Sequence = 376 Nucleotides)

GETCOGACGC TETETCAAGC TCTGCACCGG CCATGAGTAT GCAGCCAAGA TCATCAACAC CAAGAAGCTG TCAGCCAGAG
ATCACCAGAA GCTGGAGAGA GAGGCTCGGN TCTGCCGCCT TCTGAAGCAT TCCAACATCG TGCGTCTCCA CGACAGCATC
TCCGAGGAGG GCTTCCACTA CCTGGTCTTC GATCTGGTCA CTGGTGGGGA GCTCTTTGAA GACATTGTGG CGAGAGAGTA
CTACAGCGAG GCTGATGCCA GTCACTGTAT CCAGCAGATC CTGGGAGGCC GTTCTCCATT GTAACCAAAT GGGGGTCGTC
CACAGAGACC TCAAGCCGGA GAACCTGCTT CTNGCCAGCA AAGINCAAAG GGGCTT

SEO ID NO:486: (Length of Sequence = 396 Nucleotides)

TIGATATTIG TGICTAATTC CAGCIACTIT GAAAGCTAAG GCAAGGGGAT TACTGIATTA ATAAATTCIC ATGCIGITAA
TAAAGACATA ACCAAGACTG GATAATTCAT AATGAAAAAG GITAATGGCC TCACAGITIC ACATGGCTGG GGAGGICTCA
CAATTATTGG AGCAAACAAG AGACTITGIT CAGGGGAATC TCCACTTATA AAACCATCAG ATCACGTGAG ACTTTTTTGC
TATCATGAGA ACAGCATGGG AAAATCCCAC CCCCATGATT CAATTACCTC CCACAGGGTC CCTCCCAGGG ACATGTGGAG
ATTATTACAA TTCAAGATGA GATTTGGTTG GGGACAGAGA GGCCAAACCA TATCAATTAC TTAAGGCTAG GGGTTT

SEO ID NO:487: (Length of Sequence = 375 Nucleotides)

TGATTAAAAT AATAGAGTIT AGTAATATGG ATGAATATAA GATAAATATI TAAAAAGCAG TIGIATTIT ATAGCCCAGC
AAGATAAAGI TCAAATATGT ATTITITATA AAGATGGATT TACAATAACA TCAAAAATTA AAATGCACCT TGAAATAATA
AAGACATGIA AACCCTITITA TGAAGACAGA TTITITAAAG CATTITITAAA AATACTTITIT CATTGACAAA TAATTATCCN
TATTINIGGG GIACACAGTA ATGITTCAAT ACATATAATA AATAGTGATC AGATCAGAAT AATCAGCTTA TCCATCATTT
CAAACACTTA TCATTTCINT GIGITAGGGG CCATTCAACA TCCIGCTTCT GGCTA

SEO ID NO:488: (Length of Sequence = 323 Nucleotides)

CACTGCATTA ATGATTGCNT TAACAGTATA TAAACAAGGG CCATGGTTTT TTTTACTAAA GTAGGTCTGA AAGATCAATA
TAAATACTAA TGGGGGCAGG GAGGAGTGTT TTATACCCCA AACTCCAATA TTCCAGCTCT GTGTCCTGTC CTATTATTAT
AATTTGTAAA AATCTTAACG ACGCAGTGAT TCGAGTTTTC GTAACTTCAA TGATGTGTTA GAGGACAATG CATCTTGGTT
TGAAGAATTT GCTGTATCCG AAGGCCGGAA AAGTACTCGA CCACGATGAT TAAATACATA AAAGGATGGG TGATTCCTTA

SEO ID NO:489: (Length of Sequence = 326 Nucleotides)

TTACCITTTA CICIGATCAT AATCICCCAC CIGICIAAGA GGITATTIAT TCCTTATTTA GAGGGCCTCI ATTGCCATGI
GCCTGGAATT ATTATATGCT CATCACTITA TGAAGAATAA AATTTGTCTT TCCTGCTTTA AAGTTACATT CGITCTICCG
CTCAAATCCT GATCIGGTCC ATTAAAGAGI GITCGCAGAC AAAGTTTCIG AAAGATTAGA GAAGAATCCC CCCCAAGATT
GCCCCAACAC TGAACTACAG ACAAACACTA TTTTATTTAA ATAAGGRGAC AGCTTTCTAA AAGTATACAT TCCTCTAATA
AAAATA

SEO ID NO:490: (Length of Sequence = 186 Nucleotides)

CTCAGATCCA TCAAGATGTG AAACTCGCAA GTTTGGTGCA GAGAAGGTAC ATGGGTTTCC TTCTTTTCTC ATCTGTATTC
CCTTTTCTGC AATTATTTTC TTTGCCACAT ACTAGCCAGC AAACCAGGCA CCTTTGCCAG AGCCATTAAG CTACAAAAAT
ACTTAATATT TTAATTTGAA CTCTGC

SEO ID NO:491: (Length of Sequence = 347 Nucleotides)

CCTGTACTTG TCGTCCCTCA TTCACTTAAT TATGATACTT GCCTGGCATC TTGCAGGTTT CTGATGCTGT TACCCCAGTA
TAGACCAAGT GCAGACAGAA TTTCATTTCT GCTTTATTAA GGCACAGTCT TGAGAAACCC ATTGGCTTCA CACACAATTA
ATTAATTTINT GGCAACAAGC TACTATATTG GCTTGCATGT CACTTTCACC TCTCTGGGCA TTAGTTTINCT CTAATATTTA
TAAAAGAAGG ACATGACTTT CTAAGGTTCC TTGCAGTAAT TATGCAGTTC TATTCTAATA GATGCTTAAG CATAAAACCC
ATTTTAATAC TGTCCCAAGG ATCCAGG

SEO ID NO:492: (Length of Sequence = 320 Nucleotides)

GAATTIGENT CCAAAGITIG GACATIGCAT TICATTAATA CGICCCITAA GITTATITTA ATCIGIATIT TCCICCTCCC
TITTIGIGITC TITGIAATCT CITTITIGCIG TIGITITICGG TIAAAGAAAC CATGITITIT TCGICCTGIG AGIGGCICCT
GITCAGAATT TIACIGATIT CATCIGCIGG TATCATITAG CATGITIGCIC TGICCGCCGT AGIACITITAA ACTAGACGIT
AGATCTAGAG ATGIGATCTA CTTCGGIAGG ACTITIGICAA GAATACTIGT AAGIAGGIAT TIACGIACCA GGGENCACAT

SEO ID NO:493: (Length of Sequence = 339 Nucleotides)

TGCCAAGITT GCTGGAACAT TATCAGATGG CTTAGGGAAG ACGATGGACA ATCGGCATCA GTCAGAGCGG GAGTACATCA
GGTACCATGC AGCCACAAGT GGTGAACACC TTGTAGCCGG CATCCATGGC CTGGCTCATG GTATCATTGG TGGACTGACC
AGTGTTATAA CTTCGACAGT GGAAGGTGTG AAAACAGAAG GGGTGTCAG CGGTTTCATA TCTGGCCTTG GAAAAAGGGCT
TGTTGGCACT GTAACCAAGC CANTGGCAGG CGCCCTGGAT TTTGCATCAG AAACAGNCCA GGCGGTGAGA GACACAGNCA
CACTTCAGCG GCCCCAGGN

SEO ID NO:494: (Length of Sequence = 366 Nucleotides)

GRAGGCCTTT GGAAAGTAAT TAGGATTAGA TAAAATCATC AGGGTGGGGC CACCATAATG GGGCTGGTGG CTTTATAAGA GGAAGAGAGA CCTGAGCTGA CACGCATGIN CTINCCCTCT TGCTATGTGG TGCCCTCAGC CATGTTAGGG CACAGCAAGA AGGCCCTCAC CAGATATTGG GGTGGTCTIN GACCTCCCAC CCTCCAGAAC TGTAAGAAAT AGATTTTTTT ATATATTACC CAGTCTATGA TATTCTGTTA COGNAACAGN AAACAGACTA AGACAAGCTT CTTAAACAAA TTGANAATAG AGTTTTAAGA TNCAGACTTT CATTGCCTTT AACAGGGGCC AAGAATATCT ATTTCA

SEO ID NO:495: (Length of Sequence = 384 Nucleotides)

CEAGGAAGGC AAGAAGCGCA GGGGGTGGCC CGCNTGGGT CGGTGGCCTC CGCTCCTGCT CGCAGCCCCT GTGGTCAGAG CTGGATACAA GATTCAAGAC CCTTCTNTTG CTTGTNACCC GCTCCAGGTT GGAGCCACAG ACACCCACCG CCACCCCGGC TGGGTCTGCN TCCTTTCCTG TGCCTTTCCC TCCAGAATGC GGCCTCAGAC CTAGAAGCTC AACCCCCCTA TGAGGGCCAC GTCCTGGGGT AGCTCCTGAC CTNCGACCTT ATGTCCAAAT TTCACACCCA TGGTTTTTCA TTTGACCCGG CCCCTTCTCG CTCATAATGA CAACNAGCTT CCTTTGAGAG GGATCAGAGN CCAATTGCAC AAGGAGGAGC CGCT

SEO ID NO:496: (Length of Sequence = 342 Nucleotides)

TACCTTAGIA AATGCAATTI TOGAACAGGC COCCATCITC AACTGGIATA GCATCITCCA CACCCTGIAG CCITCAAACA
TCACCTGITA AAATACIGCC CATTCCATGI CATGIATATC TGCCCATTIA TGGGAGCAGI GAGTGGAACC CTGACAGTGA
GGGACTTTAA GCTGIACTIC AAAAATGTCG AGAGGGACCC GCATTTTATC CTTGATGTTC CCCTTGGAGI GATCAGCAGA
GTGGAGAAGA TTGTGAGCAC AGAGCCATGG AGACAATTCC TGTGGTATAG AGATAGTGTG CAAGGATATG AGGAACTTGC
GGCTTGCTTA TAAAACAGGA AG

GATTIATIAA GIATCCCCGA AAATATAAAC ACAAACCAGT AAAAAACAAA ACCGTAAAAC GICAGGCCTG GAGCTGCAAT
AAGACAGAGA CAGGAGCAGC TCACACGTGG CCTAGGTGGG GAGGACGAGG CCATAAATAC TGCAGGAGGG CGCCAAGGGA
GCCCTAGGGC GAGGGGAAAG CAGGGTGTCG GCAGCGAGAT GGNTCCNGGG GITTAGACAC TGCTGGCTTC GGNCCCGGCC
GGCACCANGA CTCTCACTTC CAGCTGCGAG CAG

SEO ID NO:498: (Length of Sequence = 319 Nucleotides)

SEO ID NO:499: (Length of Sequence = 408 Nucleotides)

GAGAAATACC TAATGIGAAT GACGAGTIGA TGGGIGCAGC ACACCAACAT GGCACATGTA TACCTATGTA ACAAACCIGC ACATTIGIGAC ATGIACTCTA GAACTTGAAG TATAATAATA AAAAAAGAGA ACCTITAAAA AAAAATAGAC TGCCAGATAG ACTAATAAAT AAAAAAGAGA GGTTGAAATA ATCATAAATG ACTAAGAGGA TGTTACCCCA CAGAACTACA AAAAACAAAC AAAAAAAAACCT CAGAGACTAC TAAAACCACC CTATGCACAC AAACTAGAAA ACCTAGAAGA AATGGGIAAA TTTCTGGAAA CATACANCCA CCGAAGATTG AACCAGGGAG AGATTAAAAC CCTGAACAGA CTAATAATGG NGTTTCAAAA ATTGAATCAG TAATAAAA

SEO ID NO:500: (Length of Sequence = 474 Nucleotides)

TTTTATTTT TICACIGITA CIGITITINA TCTITGATIG ATAAAAATGA AAATGCCAAA ATGAGGGTTA GCTTAATTTA
AAGTATAAGC GTAGITAGCA GCTTTINCTA ATCACTCCIG TCCATITAAA AAATAATCCI CATAGGAGTA TAAACAGAGG
AAGGAGAAAT GGAGGATGGG CTTAAGAGAA AGAGTATTIC ACAAATGICT GCATAGCAAA TICAATTCAT CTACCTAGTA
GCTCCTTCCG TGTTAACCTA CAGGIGITCT CCCCTCCAAA AAAAAGCATC TTTTAGGAAG AAACCACCTT AACACTACCT
TTAGANGATT GAACTTCCAG GGATAGGTTG TTTGAGAGAA TCACCAAAAG CCATTTTTAA ATGAATTTTT AAATTACGGC
TTTCTCATTC CTTATAATAG TGTAGCAGCC ACCTTCCCTC TACTATGGAA CTTTTAACCA ATAATCCAAG TCCT

SEO ID NO:501: (Length of Sequence = 378 Nucleotides)

GIGGIGGGG GCGCCIGACC TCGIGATCCG CCCGCCTCAG CCTCCCAAAG TGITGGGATT ACAGGCGTGA GCACCGCACC CGGCCCITGI GIACATITIT ATAAGAGAAT TITTITAGCI AGGAGTCAG AATTITTAAA GIACCATITG AATGATCITA ATTITINCITI CATGACAACA CATTCCAAAA TGAATCATGC TTATGIACTA AGAGGGAAAA TGIATTITAAG NIAAGGGTGA GAGACTTAAG TTATAGGTGA CCTTAGAGAC CIAAGGTGAG AGACTTGACA CATGGAAGGA GTAACATTAG GGTCTACCTC TACCTCAATT TAGITAGCGA TITTACTACAA TTTCAGAGCT AACAAAAGTA AAAATAAA

SEO ID NO:502: (Length of Sequence = 448 Nucleotides)

TITTGGAGAT GGAGTCTTGC TCTGTTGCCC AGGCTGGAGT TCAATGGCAC AAACTCGGCT CACTGCAACC TCCGCCTCCC
AGGTTCAAGC AATTTTCCTG CCTCAGCCTC CCGAGTAGCT GGAATTACAG GCACACGCCA CCATGCCCAG CTAATTTTTG
TATTTTAGTA GAGACGGGGG TTTCACCATG TTGGCCAGGC TGGTCTCAAA CTCCTGAACT CAGGTGATCC ACTCCCTCGG
CCTCCCAAAG GGTTGGGATT GCAGGCGTGA GCACCACGNC CAGCCATGAT CCTTAAACTT GTTTTAAGAG GTATAATAAC
TGGAAATCAT GATGCTCTTT AAGGAATACC AATTGGATGT ATTATTGATG TATTTAATTC CATCCATATG NAGTAGAAAC
AGTTTTCATT AGCAGAAGGC AATTATATTA TAGCTACACA ATATAAAG

SEO ID NO:503: (Length of Sequence = 446 Nucleotides)

CTACAGTACC CATCTCCATT TTCAGAGAGC TCCGATGGAA ATTTCTATGA ACTAATTCTC CTGCACATAC TTTGGTACAA
GTGGGCTACT GGAGCCACCT TCCTTCGTTC AATCAAACAG CATTTATTCA GCTTATTTAA TGAACACTAT CCAAGATACT
TGGGGGGACAG AAATGAAAAG ATGGGGAGAC CTGTCAAACA TATGGTACTA TGTCTATGCA AAATAACATT GGAATGTAGA
TTCACAGTGG AAGGCAGGGC AGGCATGGAA GAATTCTGAG AATGAGTGT ACAGCTCCTA CCTGTAACAG CTCTTCAAGC
TCCTGCTGGA AGCGGTCAGT CAGCAAATCT ACTAGCTGGC TGCGGGCAAA AGTCCGCCCG GCTGGAGGAA AGTGAATTCC
GGGATTTACA GAGCAGGTAG AGGGCATGCG GCCCAGCCCT CAAGCA

SEQ ID NO:504: (Length of Sequence = 248 Nucleotides)

TIGCTCTTCT TITCTACCAT GGGAACGICC TICTCAGGGG ATTTINAGGT CTCGGTGTTT CIGIGITTCT NAATAGGCAG
TITCTCGCTG TCGGCTAAGG GCTTATCCAG GACAATATCC AGAGCCCTGT AGGGGTCGTT GGGGTCTTTG TCATCCTCGT
CGCTGGGCAG AGCATTCTCA GGCATCTCCT CTGINACGAT GTCCACCTGC TGGGCAAGGG CGATGTCCTC GTCGCTCTCC
GTGGGCAA

SEQ ID NO:505: (Length of Sequence = 367 Mucleotides)

GCTATGTTGC CCAGGCTGTT CTCAAACCCT TGAGCTCAAG CAGTCCTCTC ACCTGTCTCC CAAAGINCTG GGATTACAGG
CATGAGCGAC TGINCTGGGC TTACTAAATT TTAAAAGATT TGIGTTGAAC CATCTGCTGA TCATGGAGCA GCAGAGAAAT
TTATTGACAG ATTTTCTAGG GTCATCACTG ATGACAATCT GNTGCCAGAA CAAGCCTGTA ATGCTGATGA AACATCACTG
TTCTGGCATT ATTGCTCCAG AAAGATACTG ACTACAGCTG ATGCAAAGGC CCCTGTAGGC AGTAAGGATG CCAAGGACAG
AATAACTGTT CTGGAATGTG CTAATAATGC AGCAGGCATT CAATAAG

SEO ID NO:506: (Length of Sequence = 419 Nucleotides)

ACACCIGGIG ACTITAGCIA TGCCTATCAA AAGCCIGAGG AAACAACCAG GTCCCCAGAT GAAGAAGATI ATGACIATGA
GTCTTATGAG AAGACCACCC GGACCICAGA TGIGGGIGGC TATTACTATG AGAAGATAGA GAGAACCACA AAATCTCCAA
GTGACAGIGG CIACTCCIAT GAGACCATIG GGAAAACTAC CAAGACCCCT GAAGATGGIG ACTATTCCIA TGAAATTATT
GAGAAGACCA CACGGACCCC TGAAGAGGGI GGGTACTCAT ATGACATAAG TGAAAAGACC ACCAGCCCCC CCGAAGTGAG
TGGTTACAGC TATGAAAAGA CTGAGAGGIC TAGAAGGCTT CTGGGATGAC ATCAGCAATG GCTATGGATG GACTCTAAGG
ATGGTTGGCC ACACAACTT

SEO ID NO:507: (Length of Sequence = 417 Nucleotides)

GAAAACTATT TIACTIAAAA AATATICTAT TACTICAATG TCATGICTGT TGAACGAGGA ACTCAACATG CITATITINCC TITGGITCCA AGAAAAACCC AAGTCIAACC AAATGIATGC CACAAGGAAC TGCCAACTGG GITAAAACTT GGTATTITCC TGGTTATCAC CCTATTTCCT GGTGTAGGAC CTGGGGTTTA ATAGAGACAT TTACATAAAA AAGGTATTTG GTTAAAACAA GAAATATGCA TGCNCTTCCT TACCACCTTC CTGGGAAAGA ACTGCTTTTT TINCTTTCTT TCTGTGAATC TTGTTCAAGA CATCCTGTAG TTTAGATATA TGGGCTGCTT CTTTTTTACC CTCAAGCTTT TAGGTGACAC TTATAAAGGT GAGCATATCA TTCTATAAAA TGGAAGA

SEQ ID NO:508: (Length of Sequence = 308 Nucleotides)

CTGACTGAT TICAATGTGA AAATAAAATA TAAAANCTGT TITTTGAGCC TGAAGCAAAT
CTGACTGATT TICAATGTGA AAATAAAATA TAAAANCTGT TITTTGAGCT ATTTATTAAC AGAACTAACA TCAGAATTAT
TTGAATCACC AGAATAATCA ATTCTGGAAA AATCAGATTC ATCAGATTAA TCTTTGGCCA ACAACTGTTC AAGAACAATG
TTAACATCTG CATGGCAATG CTACATTTNC TAGGATTTGA CATTTCAGC AATTGAGGAA TTACTATA

SEO ID NO:509: (Length of Sequence = 370 Nucleotides)

TTTTTGAGAC GGAGTITCAC TCTTGTTGCC CAGGCTGGAG TGCAATGGCA TGATCTCGGC TCACCGCAAC CTCCGCCTCC
CGGGTTCAAG CGATTCTCCT GCCTCAGCCT CCCAAGTAGC TGGGATTACA GGCACGCGCC ACCACGCCTG GCTGATTTTN
TATTTTTTAGT AGACACGGGT TTTCACCATG TTGGTCAGGC TGGTCTCAAA CTCCCGACCT CAAGTAGTCT GCCTGCCTCA
ACCTCCCAAAA GTGCTGGGAT TACAGGCGTG AGCACTTCGG CCTGGCCGTG ACTGATTTTT TTTCATGTAG AATTGTCAAC
ACGAGAGATC ACAAGTGGAG CACTTTGAAA GACCGTCGGT TGTGTGCACG

SEQ ID NO:510: (Length of Sequence = 446 Nucleotides)

TCTTTCCTCT TACTTTCCTT CCTTCCCTCC TTTCATATGA GAGACTCTAT ATGGAAAAGG AAGCTGAAGT GGCCTGCACA
CGATATAGAA AAGCCATATT ACTTTCCTAA GACTGGTAAT CCGGCAATAC CTAATGCAGC ACATGGCTAG AGACTCCACA
TTTGCCCAAC TTCTCTGCTC ATCATTTGCC ACTGTTCTGT AAATTTCCCA GTCCCCTCAC AGAAAGCACA TGGCACCATT
TAAAAATGGCT GCTCACTCTC TAAGGGAGGT CTCACAGGCT GGTAGTGAGC CCTGTCCCAA TAGTGAAGTT CTCCACAAAT
GGGGAGACTT CTCCCAGGAG GAGGGGAGGC CTGGAGATGG GCATCCAGTG GGCAATGTCA GCTGCCCTCC AGGTTCTTGC
TTGCCCTTTT TCCGCCCTGG GTCAGTATAC AAGCTTTCGG GGGACA

SEO ID NO:511: (Length of Sequence = 354 Nucleotides)

SEO ID NO:512: (Length of Sequence = 374 Nucleotides)

CATGIATATI ACAAAAAAGI TCCTGTACCA AAGITCTTAT TAGACTITAT TITTGTTTIT TIAATTITTA AAATTITTITT
TGTTTTTATT TTTATTTTTT AAATTINCTC TCCTCGTGGT GACTGTCATG TGATTGTCTC AGITTCTGGA CCAAACAAAC
ACACTAATAA TTTTAAATCT GAAACAGTGA TTGTCCCTTT NGGCTCATGT ATGTACAGGG TGATCAGAAG TGGTACCTGT
TAGCAAAAAGT GTCACGATGC TGCACCTCTA CCGAAACTGA TACCCACGAA CTACGGAATC TAAACAGACT ACACCCTGTA
ACTGCGTATT ACTGTCCACA ATGGGGATCT CCAAAGACAA AAGAGGTATG GAAA

SEO ID NO:513: (Length of Sequence = 463 Nucleotides)

ATCAGCAGAT TTINCICTOG TGAATGICTA ATCAGTGTGA TTITCCATAGG CIATACITAC CITTIGGGGG CTACITGCCA
ATNATGITTG GTCAGTATCC TTGCAAACAA CAGAGTGACA GATTCTAAAA ATGACTITGC AGGCCAGTAC TAAGAAAGAC
ACCAAGGTTC ATGGGCTTGC AAATAAAAAG TCCATAACTT CCCTGCCCTA CITCACCAAG TGAAATCGAG TTCCTCACAC
TTCTGCACAC AGCTCTTCA GGATCTTCCC TTCCCTTCAA GGCTGTCTGA TGTTCAGTTT AATTTGATTG TATTTGTATA
AAGTGCTGAG TGTTGAGTCC TCAAAGAAAT TTACTTTCAG TCTAANGCCC CCTTGGGACA AGAAAGTGGC AACCAGGCAA
ATGATTGATT ACTTATTTGT TTGAGTATCA CTTTGTGATT GTCCCAGGGC TGTATTACAC ATA

SEO ID NO:514: (Length of Sequence = 396 Nucleotides)

CCAACCCAGA AAACGITICC TGGCTCTCTA CTAACAGTAA AATGIGCTGA GCCCAAATTI TCTGCTCTAA CATGGGTCCC ACGACCTAT CAGTCTGCTC TGGGGTGCTG ACCTGCTGGG TCCTGAGCAG GGTCTTTCCC TAAGCATCAC TGTGGGTTTG GAGACAGCTG TAATGTGTGC AGCTGTCAGC AGAAAGTACA ATGCCACTGG GCTACATATG TCCATATCAT CCACCACCAT

TTCCCACTGT AAAACCAAAG GCTGCAACTG TGAACAAATG TGGACTTCCT CAAAGGACAA ATGAGGAGAC TGAAGGCTAC ATTTCCTCCT TTGAGAACCC ATTAGAGAGT GTCTACAGTT ATACAACAGG TTTCTGCAAG ACCCTGTGGG TAACTT

SEO ID NO:515: (Length of Sequence = 416 Nucleotides)

ACAMAACAAA AAGIAGIAGC ATCTCTGTGA GAGGIACACA GITAGAAAAA TGATTCCACA CACGAGIAAA GAGATTTACC AGGAAGAGC TIGITTTCTA AAAGITGATA CAACTAGTAG AAAAATACTT GTCAGTGGTA AATAGAGCAG AAGTAGAAAA AGCAGTTAAT CTATTAGATC AGATCAGAGT GTAAGGCAGG TATATCAGGC CAAAGGTGAT AAGACAGAGC AGAAATAAAG TATTGTTAAT TCATGCATTT NCTGACTCAT TTATTTATAC ATTGATACTG TCACTTATAA ATCAAATCTT ACAGGTCAGG TTCTGTGCCTA AGCTCAGGGG NTATAAAANG AAATANGTCA CTGCACTCGC CCTCACGGGG GCCCACCAGT ATAACTGGGT AGATAGTTCT ATAAAG

SEO ID NO:516: (Length of Sequence = 368 Nucleotides)

CCCATGGAGC TOGAGAACAT OGTAGOGAAC AOGGIGCTAC TOAAGGCCG GGAAGGTGGC GGTGGAAATC GCAAAGGCAA
AAGCAAGAAA TGGOGGCAGA TGCTCCAGIT CCCTCACATC AGCCAGTGGG AAGAGCTGGG GCTCAGCCTC GAGCGTGACT
ATCACAGCCT GTGGGAGGG CANCCATTGG GCGCCTGCTG TTCCGAGAGT TCTNTGCCAC GAGGCCGGAG CTNAGCCGCT
GCGTCGCCTT CCTGGATGGG GTGGCCGAGT ATGAAGTGAC CCCGGATNAC AAGCGGAAGG CATGTGGGGG GCANTAACCG
CAGAATTTTC TNAGNCACAN GGGTCCTGAC CTCATCCCTG AGGTTCCC

SEO ID NO:517: (Length of Sequence = 393 Nucleotides)

SEO ID NO:518: (Length of Sequence = 465 Nucleotides)

CCTTCTCTGC AGATAGAAGA GCCAGAATGG GAAAAGGGAA GATCCATCAA CCTGTCTGAG CTCATTGATG TITACAGTGA
TGGTGTTGAA CTACTCCAGA TGGTGAAGGC ACCAGATTCC AACTGCAGCA ACCTTCTGAT TACAACCAGA CAAAGCCTTG
TNCTGCTTCG GGGGCAAAAT CTGACACCTT ACTGGGATACT GAGACTTCAA GGCCTGGGCA GCAGCCTACT CCTGGATATT
TCACTGATGA TCAGACATTA GACTTCCTTC TGCAGATACA GGATGGAGTT GGGATGAAAA GAAAACGGCC AGCCACCTCA GCAGTTACTT
TCAGACCAGA AGTCTGTCTT TCCTCTTCTG GGGCCGAAGG CTTGTCAGGT TGCATCTTCC CAATT

SEQ ID NO:519: (Length of Sequence = 382 Nucleotides)

GGCCGTCGGT AACAGAAAAC TCAGTGCATA CITTGCTGTT GTTAGGTTGT CAATATAGTC TTTCTGTAGG ATGGATAGCA
TGTTTGAGAG GTGCCAAACA AGAACTTTTG GGGTTAGTAG TGTGTCTTGT GGAGGGTATT ACAGGACTGT GTAATTATAG
GACTCTAACT TGACATGGCT TGGCACCCAC TTGCAGCTAG TGGGTACAGG GTACAAAAGA TGTTAGAGAA AAGCTCTACA
GATTACGTAC TTCTGTGTCT TCGTATGCTC AACACTGTCC TTTTGTCCTC CATGAAAGAT GAAGGAAGCA AATTTATGTA
TGTNCTTTCT TTGACCTTCT TTAATCCTCT GATACTTTTT AGATTGCATG ATTTTACTAG GC

SEO ID NO:520: (Length of Sequence = 304 Nucleotides)

CCAAGACTGC TGATCTCTAA ACAAGCATCA AAACCCGAAG CTCATTAACA TCAGAGTGAG CTTCAATAAG GTGANCACTA
CAATGATGTA CAATTACATC CTAATANTTC ANTGCCCAAG AGCCCTGTAG AACTATTGCA AGGCCCAGGN TTATCACAGT
ATGCAAATGC ACTAGGAAAA TCATTACCTA TTTAGTCCCC TTTATTTTGG TGGGTTTAAC ATGAGAAGAG TAATCCATGC
TACAAGACGA GATTTCATTT TACAGCTGTA GTAGCCCAAGT GCATAAAAGC TTGANTCTGT CCCA

SEO ID NO:521: (Length of Sequence = 360 Nucleotides)

TTGAGACGGA GCITTCCCTG TCACCCATGC TGGAGTGCAG TGGCGCTATC TCAGCTCACT ACAACCTCCA CCTCCCAGGT
CCAAGTGATT CTCCCGCCTC AGCCTCCCAA GCAGCTGGGA TTACAGGCGT GAGTCACCTG CCTCAGCCTC CCACAGTGCT
GGGATTACAG GTGTGAGCCA CTGCGCCAGG CCTCCCCAAGG TGTTGGGATT ACAGGCGTGA GCACCGCTCC GGGCCTCCCA
CAGTGCTAGG ATTACAGGTG TCAGCTGCTG CACCTGGCAA TTTTTTGATA TTAGGTCCCC TGAAGTCCAA AAAGAGATAT
ATGGCTTATT TGGTATAATG AAATCATACA GGAAGGCATT

SEQ ID NO:522: (Length of Sequence = 287 Nucleotides)

TTGAGGAAGT TCTGTTGCTG GTGAGGAAAT TCTNTTGAGT TCTGTAGGAA TTTTTTATAGC TTGTTTTGCA TTCAGTTCTA
TCAACAAGCC AGCAGCAACT CAAAGGGAAG CCTCCTNCTG GCATATCAAT CACACAGGCA CATAGGATCA TATAGCATAT
AGGATCAGTC CCAAGAAGAA CTATNGGGIN GGGGAGAGGT TTTTCTTCCA CTTCTTGGGN TTCAGTGACT TTGAGATGGA
CCTCTTTTTT CCNNTGGACA AAATGTCATC ACACCAACAT CTTATTG

SEO ID NO:523: (Length of Sequence = 318 Nucleotides)

CCTTGTCTCT ACTAAAAATA CAAAAATTAG CCGGGCATGG TGTCACGTGT CTGTNATCCC AGCTACTCGG GAGGCTGAGG CAGAAAAAATT GCTTGAACCT GGGAGGCAGA GGTTGCAGAC AGCTGAGATC ACTCCATTGC ACTCCAGCCT GGGCAACAAG AGCAAAAACTT TGTCTACAAG TCCTCCTACG CTGACAGGTC CTCACTCACC TGAATCTTTT ACGCCAGCAG CGTCTCTTCA CTGACGTNCT TCTNCATGCC GGAAATAGGA CCTTCCCTTG CCANCGGGCA GTGCTGGCTG CATGCAGTCG TTACTTTT

SEO ID NO:524: (Length of Sequence = 238 Nucleotides)

ATCTCATTGG AGCCAGGGTT CCAGTTCTCA TGCAAGTCGG CCACAGGAGC CACGGAACCG CAGTAGGATT TCTACTGTTA
TACAGCCCTT GAGGCAGAAT GCAGCAGAAG TTGTGGACCT TACCGTTGAT GAAGATGGTA AATTGAAGTA GTAACAGTAG
AAAATTATGA AAGGAGTTTG ATAAAAGGAA ATCTCTTAAT ATGCTAGAAA CTCCTCCTGC TTACTGGTAA TATATTAT

SEO ID NO:525: (Length of Sequence = 168 Nucleotides)

CCAATGAGIG TOGACCCTAA ATTTAAACAG CTAAAGCTAT AGTCTAAGGA CAGTCTCAAA TAAATACCTT TGAATTGTCA
TATGGIGCCC AGGAGGGICT TGIGGAAAGG GTTTCATGGT AGTGAAAGAT GTAATANCTC TTTTTTCCTT TTAACCCTAA
GCCTGTCC

SEO ID NO:526: (Length of Sequence = 387 Nucleotides)

GEAGGICACA CGGIGAAACA GACACAGITA TATACAACAG GGCAGGITIT TAAAAAGAGI TGCTCTCAGA CGCATITITC
CTGCTCCCTA AAAAGCCGAG GAAGATACTG GNTCCACAGA AAGAAAAGGC AATGCCGTAA CATGAGGCCC TCATGGCCGC
ACCGTCCAGG GGAAGGCTG TTAAAAACAC AAGTATTCTT GTGAAATACT TCGATCTGAG CATTAAGGCA GGTCTGCAGG
AGATCCGTCC TGGGGACTCG GACAGCAACG CTACCGGCTC CGAGAGGACA GTTAAATGTC GCCTCCCGGC AAGAGGGGCG
GAGAGATCAG ACAAGGAGTT GTTCCTGAGT TNAAACCTGC TACAACAGCA AACTCCAATA AACTCAA

SEO ID NO:527: (Length of Sequence = 336 Nucleotides)

TTTGCAGTIT TACATTCCCC TAGTACATCC CIGCITACIC GGGAGCACAA AGCTTGGTTG TAAGAAATTG TGATTTGGAA GTAGAGAAAA GCAAGGAAGT CCAACCTCAG GAGTGTCTCT GTTACTAAGA GGAGAGTGAG ATCCAGGGTG TGGGAGATGA TCTGAAGGTC TATGGGTGGG GAGTGCCACA GGAAGAAGGG TTCTGGTCGG AGTTAAAGGA GGATATATCT ATATNCTGGG AGATGAGCTG AATTCAGAAC ACATGGAATG GGAACAATTC TCCCCATACT GCGTTTAAGC CAAATTAGGC TGGCATCCCC CACCACGGCC AACTAA

SEO ID NO:528: (Length of Sequence = 482 Nucleotides)

TTITIACTICIA GCGIGAGGAG GGGGCCTCCT AAGGAAAGIC ATGCTGGGTA AACTGTGCGA TGTTACAGAG CACATTGAGT
CTGTGGTCAT CGTGGTTCTT CTATCTTCAC TGTCACCTGT ATCCTGTTAC ACATACTCAG TTCCTAATTG TAAGCTCAAT
TTTGGTATTA GCAAAAGCAT CTGTCAGTTT TTCCTCAATT ACTCACACCT CTTCTTGCCT AAATAAAACA AAGAAACAAA
GAAAACAAGT GTGGTGTCAT TACACGTCTC GGGAGTTCCT CGTCACTGAC TTTATATATA TANAANAAAG AATGCACATG
CGGGCCACGT TCACAGATAG ACAGATTCAC CCGAAATTGA GGAATGAGGG CCCTTAAAGG CTGCCGANAA NCAAAATGGG
GTGGAAAATTA GCAANCGTTG TTTTCCGGTC AATTNCCAAT TGTGCACTGG CTGCGTTGAG ACAAGNCCAT CTTCCAATTT
CC

SEO ID NO:529: (Length of Sequence = 412 Nucleotides)

CTCTCAGACA GIATCCTCCT CGAAGCAGGA ATCCTAGTAA ATCTCATCTG CGGCATGCGA TTCCTAGTGC AGAGAGGGGA
CCTGGGTTAT TAGAAAGTCC TTCAATATTT AACTTCACTG CAGATCGATT AATTAATGGT GTCCGGAGTC CACAAACAAG
GCAAGCAGGT CAAACTAGAA CACGGATTCA AAACCCTTCA GCATATGCCA AGAGAGAGGC TGGGCCTGGG CGTGTGGGAGC
CAGGCAGTCT CGAATCCTCT CCTGGTTTAG GGAGGGGAAG GAAGAATTCC TTTGGCTACC GGAAGAAAAG GGAGGAGAAG
TTTACAAGCA GCCAGACACA GTCTINCAAC GNCACCAAAG CCTCCGTCGC CAAGCTTTCG AGCTGGGGGC TTTTCCAGCT
TTCCCTCCAT TA

SEO ID NO:530: (Length of Sequence = 301 Nucleotides)

ACTITITAAT AATAGICATI TAAAGIGGGI GAGATAATAT CICATIGIGG TITINATIIG CATITCICIG ATGCITAGIG GIGITGAGCA TITIGINCATA TAACINCIGG CCATTIGIAT GICITITITI TITITITITIT TITITITITIGA GAIGGAGICI CACITIGICA CCCAGGCIGG AGIGCAGIGG CGCAATCIIG GCITACIGCA ACCICCACIT TCIGGGITCA AGIGATTCIC CIGCCICAGC CICCCAAGIA GCIGGGATTA CAGGNGCCCA CCACCACGCC CAGCIAATIT T

SEO ID NO:531: (Length of Sequence = 312 Nucleotides)

CAGATGAGAC CAGGCCTTGA CAGTGGGGGC AAGTCCTACC AACCTGCACA GCACATCCAG CAGGACAACT GTGGCTCAGC
AGGTGCCAAA TGGAGCCCAT GGGCAGAAGA TGCCCCACAGC GTTCCAGATG TGTGTGGTCT GAGAGATAAA AGGACACAGA
ACAAGATGAC TGTGCAAATA GCCAAGTGGT GGCAGAAGTT CTGCATTTCC AAGAGATGAT CCACTCAATA ATTTGACGAT
ACTAGTTGGC CAACATGCTC AGAGAAAACA GUCTTATCCA CATCTGGAGC CTCATTCTCT CTCAGGATCA TT

SEO ID NO:532: (Length of Sequence = 313 Nucleotides)

GCACAACTCT CGACCTTTGG GAGCAGCCAG GGAGGAGTCA CTGTCCCAGC CCCTGGCCT AGGCACAAAG GGGTGGGAGA
GACAGCTGGG CCAATATGGT CTATTACCGC CTGAAACCCC GCCGAACCAC CCTTAACTCT GCCTTCAGGC ATATCCCCCC
ACGTCCATGT CCAGGAGCCC CCCTACTGTC CTGGTCATCT GTGGCCCGGG GAATAATGGA GGAGATGGTC TGGTCTGTGC
TCGACACCTC AAACTCTTTG TGAGTATGTG GGGAGGGGCT GTGGGGGAGG AGGCGTNNG GGCTCTGGGA TCT

SEO ID NO:533: (Length of Sequence = 376 Nucleolines)

GTANTICCAT GIGGCIGACT GGGTAACAGA TITGAAGGGT ATCACAGACC TICATGITGT AGCTCATCGC AGTGTATTGT
TIGITGCITG TCTCTGTCTC CCGTTGTATT GCCATCCTCA AGGGCAAAGA CTGCATCTTT GTATTCCCAG CTCCTAGGCC
TGAGTCAGGC ACATAGTAGG AATTCAGAAA GTATGTTTTG GATGTAACAT TCCTCCTTTT TCCTGGACAA AATGGCCTTT
TGTCCGGTGC ATTGTCCTTT CCATAGAGGA GGGGTTGGGG CAGGATTGTN AGATGACTGT GTTTGAATCT TCAGTTAGCT
AAGACAAGGA TACGTNTTTT CCATGGTGCA AATCTAAAGG GTTCTAGTGA GGTGGTTC

SEQ ID NO:534: (Length of Sequence = 374 Nucleotides)

TITITITIT GICCAAGGIT TATCAAATTA ATTGATTITG GGGGGCAAGA TAAAAATTIT NATITGATTA ACTITCICIA
TIGGITITIG TITICAATTI CATTTATITC TICITITATC TITIATAATGI NCTTACATCI GCITGGITIG GGCIGGGCAC
AGGGGCTCAT GCCTGTAATC CCAGTACTIT GGGAGGCCAA GGIGGGCAGA TCACTTGAGA CCAGGAGTIT GAGACCAGCC
TGGCCAACAT GGCGAAACCC CGICTCTGCT AGAAATATAG AAATTGGCCA GGIGTGGTGG CCAGCACCTG TGATCCTAGC
TACTCGAGAG GCTGAGGCAG GAGAATGGCG TGAACCCGG AGGGCAGACC TTGC

SEO ID NO:535: (Length of Sequence = 433 Nucleotides)

TGCCGACTGA TTCCAAGTCC CCAGGAGGGC TGTGAATGCT AATAGATATT TGGGGTTTAT CTACATGGAT AAATCAGAAT
TGTTAACATT ATTTATAAAG ATAATACTTA CATAATTTIN AAATTCACAA AGATTGTTTG GCTTAATGAT TTCTAAATGT
ATGCAATATA ACATTAGGCG GCTTTTATTA ATTCTATTTA TGTAATGGAA AAGCTCAATT CAGCAAAAAA CAGATCTGAT
GGGATTTGGT TATTCTCTAC CTGATCAGAA CAAAGCCTTA CTTTACATTC CTGACTACCG ATTGGCTGAG GGATTGTCTA
ATAGAATGGA GCTTTCTTTT GAGCCGTATC CATGTGTACA AAATTGGGCT GCTTTACCTG TGACCCACGG ATTGCTGGAG
GAGCTTGJAA ATGTAGTCAG CCGTTTCTTT TGG

SEQ ID NO:536: (Length of Sequence = 438 Nucleotides)

GATGAATTAA GAGGGAAATT TATAAAGTAA AATCTTTAGC GCTGTTGATC AAAGAGTTCC AGGCCGGGCG TGGTGGCTCA
TGCCTGTAAT CCCAGCACTT TGGGAGGCTG AGGTGGGCAG ATCACGAGGT CAGGAGATCA AGACCATCCT AACACGGTGA
AACCCCATCT CTACTAAAAA TACAAAAAAT TAGCCGGGCA TGGTGGCAGG TGCCTGTAGT CCCAGCTTATT TGGGAGGCTG
AGGCAGAAGA GGAATTCCTG CAGCCCGGGG GATCCACTAG TTCTAGAGCG GCCGCCACCG CGGTTGGAGC TCCAGCTTTT
TTGTTCCCTT TAGTGAGGGT TAATTTCGAG CTTGGCGTAA ATCATGGGTC ATAGCTGTTT TCCTGTGTGA AATTGTTATC
CGNTCACAAT TCCACACAAC ATACGAGCCG GAAAGCAT

SEO ID NO:537: (Length of Sequence = 316 Nucleotides)

TAGTAGCACT AAAGCCCCGT TTTGGTCACA CTCTCACCTA GGTGAGAACC TGACCAAAAA TGTGGAATTA TTAAACAAAA TGATGGGAAG CCAATGINCT GAAACTGAGC TCTTGCACTA GGCCCCCACA GACCAAATTA AAATGGAGTC ACTAGTGCTA AATGCTTTGG AGTCAAACAG AAATGTTAAA GAAGATAGAT CCCAAAACAG AGCAGTGTTT TATTTTTCTC CAGAAAACAG GAGATTCCAG CATAATAAGA AAGTCTCCTC TGTTGTAACC CTTACAAAAA AGTAACCTGA AGTAACCATT TTTTTT

SEO ID NO:538: (Length of Sequence = 303 Nucleotides)

ATCITCATGG GCGTCCTAAC TGTAACAAAA ACCCCACAAT TTGAACAGAA GAACAGAAGT ATCIGGTTAC AGAAGTGCAT TCATACATTT CACAAATGTT TCAGTATCCT CTTCTCCCCG ACCCCAGCAT GAGCTTTAAT TGGATGTAT TATTCTTTCA CCAGCATGCC CATGAAGGAG CTAAGGAAAA CATTTACCAA GTCTGTTTCA AAATCTGTCC TTGGCATATC AAACTTTTTC TCTTCCTTTT TCATGCTTTT TTTTAAAAAA AAAAACAGGA GAAAGCGAAT AGAGAGGAAA GAG

SEU 1D NO:539: (Length of Sequence - 162 Nucleotides)

CATGICATAG TGGCCTGCTC TCCTAACACA GCACAATTTA GGGCATATTT TCATGATGGT CTATCACTGG ATTACAACAC
ATCTCTTCAT TAAAGTCTTG GGAAAGAGGC TTCAACTTIN CTGTGTTGAG AAAACTTCAC AGGTGTGTAA AGTTTGATCA
GTATGTATAA TATATTINAT TACATATATT TNATTTINAT TTTTCATTTT TTTGCATACA TAGCAGGTGT ATATACTTAT
GGGTTATATG AGATATTTTG ATAAAGGCAT GCAATGTGTA ATAATCACAT CAGGGTAAAT GCAGTATCTA TCCATCACCC
CAAGCATTTA TCCTTTGTGT TACATACAGT CCAATTACAC TC

- SEO ID NO:540: (Length of Sequence = 416 Nucleotides)
 - CACCAGGGAG AACCAATACA ACAGAAAAA AGCAGAGAAC AGCTATGTGT CCTGCCAGGT CTACCAAAGA TAGTCATCCA
 AACATGAACA GATGAGAAGG CTGTTTTTCA AGAAGGTGAA AGTGACAGAN TATTCAATGA ATCTGAACAC ATGAAGATAC
 TGAGACACCA GTAGTTCAGC AATAAGTGGA GAGAAAACTA AGCAAATGAG AAACTTAAGA ACAATTATGC AGCAAAGAAC
 AACTGGATAA GCTGAAAAGT GTTTAAAGAT GCTGCCGTAA ACACTAAGTA TCACAATCAA ATTCTGATTT GTAAAAATAG
 AGGTATGGGA AGGGTACANG TATGTTTGTG GGGCAAAATG GTGAGGAGAG CTTAAACCCT CTTCTTCCTT AATGAGGAAT
 TAAATAATCC CATTAA

SEO ID NO:541: (Length of Sequence = 341 Mucleotides)

GAAATACTIC CAGGCCITCG AAAGGCCATC CTTTGGACAC ATGIAAAAAG CTGTCTTGTT GGCCCGTTAT TCCCACTGAC

CCGTCTGAGT GATCACCCAG GAGCGCGGCG GCAGCAAGCA GAGCTCACCG GATTTGGGAC AAGGATTTTA AAGGCAGCTA

CAAAGCTGAG CTCTATTTGC TGATGATAGT CTCTGTTCAG CTGTTTAAAA TGACTGTCTG ACTCACCATG GTAATTTTAC

ACAAATTAAA AACACATTTT GGGTTGTGCA ACAGTGGTTC TCATCTTTCC AGGCAGGCAG ATTATTTTAA TGCTGTTTAT

ACAGGGAATT GGGACTCTCG G

SEO ID NO:542: (Length of Sequence = 334 Nucleotides)

TIGITGITIC CTACCITAAC CAATACCICC TEGAAAAAAG AGGIATIGGI ATAAAAATAA ACCATACCCA AACATICCCA
CAACATGACC TIAATAAGCT GGIGCACAGI AGATIATGGC AGAGGAAAGA AAATTGACIT TAGAATTAGA GAAACTIAGG
TICAAATCIC AGCICIGICA TGCITTGGIT GACCITCAGI AAGICCCATT TNCTTCATCI GIAAAATGGG AATAACATCI
ACTCCACAGC ATCATTAGAA AGATTAAATA GTGGCTGGGC ATGGTGGCTC ATGNCTGTAA TCCCAGCACT TITGGGGAGG
CTGAGGTGGG GCGG

SEQ ID NO:543: (Length of Sequence = 350 Nucleotides)

ATTTGTTGC AATTGACAAC ACCICATTAA TIGIAAGCCC AGTGACACIG CITGCTGTTT CAAGTCACIT TIAAATTACA
CACGIGCIAC TIAATCTTAA AAGCAAAATT AAACATTGGA CIGGTTTACA TITCAAGCTA CAATATGGAA CCATTGTATT
TGGAGGAATG AGTTTAATAT GCATTGTAAA ATAAAATTAG GGGGTACTTT GCATTCACAG CGGCTTATGT AATTAGGTTC
AGTCAACTGT AATGTTTCAG GTTAATGTCT TCCATGGATG TATGCTGTGT AAATAGTGAA CITACATATC CCTTAATACA
TCTGAATTAT TACATAAATC CTTAATATTA

SEO ID NO:544: (Length of Sequence = 328 Mucleotides)

GGGAGACGAG AACTCTTGAG ATCCGGGGTC ACCTGINAGT CGCTGGACCC AAGGGGGAAG CGTCTTGATT CCTGGAGGAA

ATCTCCGAAG TGATGTGIAA CCCTGTGTGT CGCCTGCACT TCGGCCGCAA CTGCCTTTGG TTCAGTCCCC TGTTCCTGTA

GGAGGCGGGG ATCATGTAAC AGTGGAGCAC ATCGCTCCCG GCTTGGACGC CTTTNACCTT TAAGTGTTCC TGATTTAGTT

TGGCTTTGGG TCTACCAAGA ATTCTAGTCA GTTAACTAGC TTTTTAAGCC AGGTTCCTGA ATTTGGTAGG CATGGACACT

CCCAGTAG

SEO ID NO:545: (Length of Sequence = 342 Nucleotides)

GGGCIATTAC CTCTGGGCAC TGGGAAAACT GGGAGACGGG ACAAGGGGTG ACCAATITTT CAGTGTATGC CCTTTTCGAA
GTGTTAAACT TTTTTTTTT TTTTTTTGAGA CAGGNTCTCA CTCTGTTGCC CTGCTGGAGT GCAATGGTGA GATCGTAACT
CACTAAAGCC TCAACTTCCT CGGCTCAAGC AATCCTCTCA CCTCAGCCTC CTGAGAAGCT GGGACTACAA GTNTGTGCCA
CCATACCTGG NIAATINITA AAGTTTTTGT AAAGATGGGG GTTTTCCGAT GTTGCCCAAG CTAGTCTCAA ACTNCTGGGC
TCAAGTGATT TGCCCACCTT GG

SEO ID NO:546: (Length of Sequence = 280 Nucleotides)

CTCGTAATGC CAGCATTTIG GGAGGCTIGA GGCGGGAGGN TCCCTIGAGC CGAGGAGTIC GAGATCAGCC TATGCAACAC
AGTGAGACCC CTATNICTAT TINATITAAA AAAAAAAAA AAAGGGGTC ACGTTTACTG CCACCATCCC AGGCAGAAG
ATGAAGCCTA GAGCCTCCA CTGCTTCCTA GTGGGTCTTG GGTTGTAATT TGCTGTCTTG GGTATATTTT TTGGCAGAAA
GCATCTGGCA TCAGGCACTG GTTCTCAAAG TCGGGCCCCC

SEO ID NO:547: (Length of Sequence = 298 Nucleotides)

CTAAAGAGTT TCACATAGTG GCTCAGTCCA GCCTTGTGGG GATCTTGCCG GGGCCTGGGG CCGGTGGTCC GGGGCCTAGG
GGGATGCCTN ACCAACAGAG GCTCTNCAGG CTCTGAAGAT AAGCTGAGGG CAACAGTGGA CAGAGGGGGC TGAACTTGCC
TCAAGGAGGC TCTTATTCAA GAGCAAGTCT TGCTGGCTTC TNCTGAGGCT GGGGACCACG TGGCCCTTTG GCCAGCCAGG
ACCAGCAGCN CTNACCACCT GCTGAGGGGC AGTTTGGGTC AGGGGGGNCA CATAGAGG

SEO ID NO:548: (Length of Sequence = 311 No. eotides)

GAGACAGGGC TGTTTCCTGC ACTACACTGG TCATCTGACC ACCTTTCTGC AATGCTAAGA AGGTATTCTT TGACCAAACA
GCAGTCCACA TACAAGTTTA AAAGGGGCCC TGTTTATGTA GGAACAACAC TGAGGTGGTG CGTAGCAGGT ACAAGACGCC
CAAATATTTC CAGTTTATCT TACGGCTGGA CTCCTATTCT CCCACACTGT TTCCTAAAGA AGGTCCACAT TATTTTGGNT
ACTAGCCTAG TTTAAGTGGA GATACTGTGG GCAACTTNAA AGAAATGACA TCAGGCACAC AGGCTGAGCT T

SEO ID NO:549: (Length of Sequence = 387 Nucleotides)

TITATITIGG TGTAAAGACA GGAAGCTGGA AAATACACTG TATTTAAAAT TINCITGGIT COCCCTCACA TIGTGGAAAC CCCCTCCCCC CAGAGCTAAT CTGTTCAAAC TCAAATACTT AAAAATTACA GCAGCCAAAC AAAAGCATGG GGGAAAAAAA AACAAAAACA AAAACCAGAT GGAGAAGGTA GCCTGGGCCCA GTAGTGTCAC TTGGTGTGGA CGACTGAGGT GCTGAACAGG AGCTTCTGIT TCTGTTTTTT TCTTTTCTTT CCTCCTTTCT CTTCAGAGAG GGGATCTNGA AGTAGCTGGG TGTGTCCAGT TTCATGAAGG CTGCTTCAAT AGCTTGGCTG AAGGAATTTT GAAAACTNGG CACAGGAACA CGGTTTT

SEO ID NO:550: (Length of Sequence = 377 Nucleotides)

CACCCCAAC TCTTCACCAA GTAGGGCCC TGGCTTGCAA TTGCAGAAGA GCTTTCCCAT CCCTGGGTGA GCATACCTAC
TGGTAGTGGC TCCGTGATTC CCTGGGGAGG GGCTCCCAGA GGTAACCAAC CAACCCTGTG CTACTGCTAT GACCACAGTT
CTGCTTCTGC TGCCCTCAAA CTGGGGAAGA AACAAAGAGC CTGAGGGCTT TACTCACGCT TCTAGCACTA CGCAGTCACC
ATATAAAGAG GAGCCCAGTC TCTCTTCCTT GTGAACCCTT GACCCCCAAC TCTTCACCAA GTGGGGCCCC CAGCTTGGGC
CAGCAGCACA GTGGCCCCAA CCCCTAGGCT GAACATTCCA GTAGCAGCTG CTCCGCG

SEO ID NO:551: (Length of Sequence = 320 Nucleotides)

GAGTTINIGG TEAGCCGAGA TCACGCCATT GCACTCCAGC CTGAGCAATC AGAACGGTCC GGCTCCTGIT GCTGAGGAAG CAGCTCIGGA TGACCITCAT GAIGAAATIT GCAGCCTCGC GCICAGIGAT GTTLFFFTIF AACITGTGC TGGAGAGAG

CCACAATACA T

CCTGTGTCAG GCCTGCCATG GCCAGGGCCG TGCTGGCTCC CTGGCCCCAGT GGGAGGAGGG TCTTCCATGG GGACGGACTT CAGCTGAGAG CCATGCCCTG GGAAATGTAC CTTTGGGGTC CACATGTTGG AAGATGGGGT GCTGTGAAGG CCACACC

SEO ID NO:552: (Length of Sequence = 334 Nucleotides)

ACAAACTGAC AAGAGAAAAC AAAGAATTCT TTGGTGATCT GGACACGCTG ATGGGGCCTC TGACCCAGCA CAGCAGCATG ACCAATCTTG TCGCCTACGT TCGCCCAAGGA CTGINTTGGC TGCCCATCGA TGCCCACTTG TTGTAGTGGG TGTTCTCAGA TCTCTTTGGT TATGTTTGTT TTTTATGCTTC TTTTTGTTATC TGTAAAAAAAC AGAAGTCATT GTAAGTTGAC ACTACAACTT AAGGGCCAGTG TACG

SEO ID NO:553: (Length of Sequence = 371 Mucleotides)

GAAAAGGGGA AAAATCACAA TATGTGTTCT AGACAATATT GGTTTAGATT TITTAAAGAT CTAAAATTCA ATTATGGAAA

GCCAGCAGCC TGATCCAGTT ACTGTGACTA AAGCAATTGT CAGACCATCT CTAGTCAACC CCTTATGGGT TTTGCAATGT

GTCTACCCCA ATTTTGGATC AGGAGGGGTC AAACAGAAAT ACAGCAATGT GATTAANCTG CTCCTTTGCA AACAATATGA

AAAGGTTTGT NCTTTCAAAG TAGATTCTAA CAAATCGTCT GCTCACTGTG GGGTAGCAAA GNGAGAAAAG CAAATCTTTC

TATTAGTCTC AAGCAAGTCT TCAGATTTAC ACACAATCTA ATGGAGGCAT C

SEO ID NO:554: (Length of Sequence = 331 Nucleotides)

TTATGACTIT TITICAATAAG GCTATTGTAT CAGCCIGINC TCICGCTGCT AATAACGACA TACCCAAGAC TGGGTAATTT

ATAAAGGAAA GAGGITTTAT GGACTCACAG TTCCACATGG CTGGGGAGGT CTCACAATCA TGGCGGGAGG CAAAGGAGAA

GCAGAGTCAC ATCTTACATG GCAGTAGGCA AGAAGAGCAT GTGCAGGGGA ACTCCCCTTT ATAAAACCAT CAGATCTAGT

GAGATTTATT CACTATCAAT GAGAGGCAGC ATGGGAAAAA CCTGCCCCTC ATGATTCAAT TACTTCCCAT TAGGTCCCIN

SEO ID NO:555: (Length of Sequence = 305 Nucleotides)

GCIGGGACTA CAGGCGCCCG CCACCACGCC CGGCTAATTT TITGIATTIT TAGTAGAGAT GGGGTTTCAC CATGITGGCC

AGGATGGTCT CGATTTCCTG ACCTCATGAT CIGCCCGCCT CGACCTCCCA AAGTGCTGGG ATTACAGGCG TGAGCACCGC

GCCCAGCCCA ACACATGGTA TITTCTGTCA TITTCATTTA GTCTTCTGGT TGCTGTGTGA TGGTCTCAGG CTTTATTTAC

ATTTCTCCGA TTACTAACAG ACTTGAACAT TTCAGCACAC TTTTTAGGTT ATTGAATAAC CCCTA

SEO ID NO:556: (Length of Sequence = 318 Mucleotides)

CITITITIGGI GATINCIAAG CICIGITITIN CITATCCIAT ATATATATGI GGITGGITIT NATITIAGGA TITTAAGGIT

ATCCCIAATA AATTITGAGA TGIGITCCAT AGCTAGCCIG TIGAGATCIT TINATATCAA AAGITAATAT CIGIGGATTI

MIAATCATIC TITCIACATA TITAACAAAG TCATTAGCAA AATATTGAAC AAAACCIGIT ATTCATATCC TIAGATACAG

AACATCAATA TCCIGAGATA CAGTACATCA TCAAAATGIG GICCCCAAAT GNGCAGCAAT TAGCATCATG TGGGAGCT

SEO ID NO:557: (Length of Sequence = 349 Nucleotides)

GEAAGCAATG TGCTTCTTCT TAACAGAGAT ACTGCACTAT TCTCTATGTA TACTCACTTG ATGCCATGGT ACATGTCCTC

CAGGATGTCT TGCTCAAAGT CCTTGCCTCC ATTCACACCT TTCAGATTTT TGCGAAACTC CTAGAGACAG GCCAGTAAGT

TTTTTCCCCT TGTGTCAACA CTGAAGCCCC ACCTAAGGAA CTCTTGGGTT TTCAGTAAAT AGGACTTAGG AAAAGGTAAG

CGAAAAAAACC CACTTCCCCA CCCCAGTCCC TTTTCTAGGT TTGGGCCAGC CCTTCCTTGA TTCCCTTGGA CAGAACCCCA

TCCATCATGC CCACTGGAAT CCTATGTCC

SEO ID NO:558: (Length of Sequence = 279 Nucleotides)

GGGCCAGGCG CTGTGGCTCA CGCCTGTAAT CCTAGCACTT TGGGAGGCCA AGGTGGGCAG ATCACCTGAG ATCAGGAGTT
CAAGACCAGC CTGGCCATGT TGAAACCCCA TCTTTACTTG TAATACAAAA ATTAGCTGGG CGTGGTGGTG TGCGCCTATA
ATCCCAGCTG CTTGGGAGGC TGAGACAGGA GAACCTCTTG AACCCGGGAG GCAGAGGTTN CAGTGAGCCA AGACTGCACC
ACTGCATTCC AGCCTGGGCG ACAGAGTGAA ACTGTGTCT

SEO ID NO:559: (Length of Sequence = 278 Nucleotides)

GAGAAAGCCA AGAGCCATCT GGAGGTGCCG CTGGAGGAGA ACGTGAACCG CCGCNTGCTG GAGGAGGGCA GCGTGGAGGC
GCGCACCATC GAGGACGCCA TTGCAGTGCT CAGCGTGGCG GAGGAGGCGG CCGACCGGCA CCCAGAAAGA CGCATGCGGG
CAGCCTTCAC AGCCTTTNAG GAAGCCCAGC TGCCGCGCT CAAACAAGAG AACCCCAACA TGCGGCTNTC GCAGCTGAAA
CAGCTCTTCA AGAAGGAGTG GCTCCGCTCT CCTGACAA

SEO ID NO:560: (Length of Sequence = 304 Nucleotides)

CAAATGITAT TEGAAGITAT CIAGAAGGCT CAGTAACCAG AACTTCCTT CATTCTGCTT TICTTTTTCT TITTTTTTTT
CTTCTGAGAC AGTCTGCCTC TGTCTCCCAG GCTGGAGTGC AATGGTGTAA TCTCAGCTCA TTGCAACCTC TGCTGCCCGG
GTTTGTGCAA TTCTCCTGCC TCAGCCTCCC GAGTAGCGGG ATTACAGGCA CGTGCCCACCA CACCTGGCTA ATTTTTTTTT
TTGTATTTTT AGTAGAGCCG GGGTTTTCAC CATGTTGGCC AGGCTAGTTT CAAA

SEO ID NO:561: (Length of Sequence = 323 Nucleotides)

GATGGTAAAC ATAAACCCAA ATATATCTGT AATTACATTA AGTGCAAGTG AACCAAAACA GITCAGATAA AAGACAGTAC CTATTTCATA GCATTATGAC TATCATGAGG TAATATATGT AGAGATTAGA GTACACATGT CATATTAGGA GGTGTGCAAT AAATGATACT TTATTCTGAA GATTAACATA ATTCATACTT AAAAGGATCA AGAACTAGAA TATTAAAAAA NTAGAATGTG AATGTTTCTG CAAGTTTTGA TAAGAACAAG CCCATAAATT AATCTCTAAT TTGCTACATT TAGGGAATAT GGGTAATGAC TAC

SEQ ID NO:562: (Length of Sequence = 214 Nucleotides)

TCTAATNAGG CCCTGCGTGC TGTGTCATCC CATGGCGGAA GAAGGAAGGG CAAGAGTGGG TGAGATTGIN AGCACGAGAG AAGGCTGAAC TTCATATTIT AACAACCCAC TTTCATGATT ATNATAATCT TCGCATTTAT TTTTTTCGGT CTCTTCATGT NCTCTAACTT TTCTCTGGGN TTTTGGTCTT TTGCTTCTTC ATTTTTAGAA GCTC

SEO ID NO:563: (Length of Sequence = 358 Nucleotides)

TITITITITI GAGAAACAGA AGCIGAATAT CCTGATTIGA TITGCCACAC AGGCGITCAA TGGCTTAGCA GIGCTAAAGA
TITATITITA TITITITIGGG CICIGGGCIG ACATTGGAAA TITINCIGAA TGAGAAAAAC CATCCTCAAC CACIGITITI
TAACACTGAG TAACTTIGGA AATTAACTTI TGCCACAGAC TIGAAAATGI TICITAATGA ATTIGACCIG AAATTACAAG
GIACAACAAC ATAATATGGI AAATTCATTI CAATAAAAAC TAAAACTTAA GATTGICAAG CIGCTTTATA TACTINCIGI
GCTATGAGAA GICAAAACAG CGCIGIATIG CCAAATCC

SEO ID NO:564: (Length of Sequence = 405 Nucleotides)

ATGIACTGIG TGITTCATAC ACATGITTCC TITAGICTTA AAATCIGGCT CATGGGGIAA ACACTATIAT AATCICCATC CICCAGATGA GGAAAGIGAG ACTTAGAGGT TAAGIACATT TIAGGATAAA GIAGGGIATT TCGATAAATG TITCAAATGT GITTCIGGIC TCTGAGGACI ACACTCCCAG GCTGCTGGGG ATACAAAATA CCCTITCITT ACCATAGGAG CACTTGGGTA GAATATTTGC AGAAACAATA AACTGGCTGA TATTTAAAGT TCTCTTCCCC TCTGACATTC TATAATTTCA TTGACCCTCT

TIGCATTIAA TIATGITGAT TITCCITTCT ACCCCITGCT TAGCIAAAAA TATACCCCIT CINTGICCAT GGACAGGAGG ATGGG

SEO ID NO:565: (Length of Sequence = 196 Nucleotides)

CATCCACATC AGGCAAAGGC AAAGCAGGAC CTGAACTTCC CACCCCAAGC CCTACATCCA TGCAAGCCAG ACCAGACTGG
GTCAGAGGCT AGAAGGGRGC TCACAGGRTT GCCTGGGGAA GCCTGGGCCC AAAACCTGGC CCTNGCTCCA GCCCAGAGNA
CCCACCTGGG CATNAGACTT GCGGCAGCGT AGGGT

SEO ID NO:566: (Length of Sequence = 275 Nucleotides)

SEO ID NO:567: (Length of Sequence = 349 Nucleotides)

CECTOSINTE TOCCACACAA ATGITTAAGA AGICACIGCA ATGIACTOCC CEGCTOTGAT GAAAAGAAGC COCTEGCACA
AAAGATTOCA GIGCOCCIGA AGAGGCTOCC TICCTCCIGT GGGCTCTCCT AGAAAACCAG CEGGACGGCC TCCCTGCIGA
TACCGTCTAT AACCTTAGGG GCACCTCGGG CAGGCAAACT CATCTCGGTG ATGGCTGTAG ATGCTAACAC TGGCCAATTC
AATGCCACAC CTACTGGTTA CCCTTTGAGG GCATTTCTCC AGACAGAAGC CCCTTGAAGC CTACGTAGGG CAGGATCAGA
GATACAACCC GIGTTTGTCT CGAAGGGCT

SEO ID NO:568: (Length of Sequence = 368 Nucleotides)

CTGGTAACIT CCCGATIGGN TITCCCCGCC TCANCCCTIT CCCAGGGCTA TICTCCTCCC ACCTGCTGCC AGGCCTITCC
CTGGCCATCC TGIGITAAAT GTCATCCCGC CCCTACTGTT ATGITCTCCA CAGCACTTGA ACACGACCCA ACATGCCTTT
TCACTTCAAG GTTTATTCTT CTATTAGITT TCCCAGAGTC TGCTTCCCTA GTGTCCATCT CCCCTGCTCG AATGCCTCTT
GAGAGCCAGT GCTTGTATTT TGGTCCINGT GGTATGGGCC TGGCACATAG TAGGCAGTCA GCAGATATTT ATGGAACAAA
CAAATGAATT TGTGTGACTA TAGTTCATTG TTCATAGTTC ATTCATAG

SEO ID NO:569: (Length of Sequence = 328 Nucleotides)

TGICACTIAA TGCACAGCTG GGGCTCAGGA CACAGCTTTG CACACCCTAA GINCTCAATA AATGCTAGCT CAGGGCAGAG
CTTTGCATAC CCTAAGTACT CAATAAATGC TAGCTCAGGG CAGAGCTTTG CATACCCTAA GIACTCAATA AATGCTAGCT
CAGGGCAGAG CTTTGCATAC CCTAAGTGCT CAATAAATGC TAGCTCAGGG CAGAGCTTTG CATACCCTAA GIGCTCAATA
AATGCTAGCT CAGGGCAGAG CTTTGCATAC CCTAAGTACT CAATAAATGC TAGCTCAGAG ACAGAGCTTT GCATACCCTA
AAGGTGCTC

SEO ID NO:570: (Length of Sequence = 313 Nucleotides)

COCTAAAAGG CAGAGTGTCT TCTTACCTCC ACACAACCAC GCTAGCTCTA TAGCAGTGGT TCTTAACCAG ATTGAAATGG CTGAAATGAC AGACATATAT TTCAGAACCT GGATGGGAAG AAAGCTCAAT GAGATAGAGG AGAAGGTTGA AACGCATCCA AGTAAAGCAG TAAAATGATC CAAGAGTTGA AAGATGACTT AGCCATTTTA AGAAAGAACC AAACAGAACT TCTGGAAATA AAAAAAAAATC ACTACAGGAA TTTCATAATG CAATTGGAAG CATTAGATAC AAAATAAACC AATCTGAGGC AAA

SEO ID NO:571: (Length of Sequence = 338 Nucleotides)

AGGAAAGCAG GGGTCTCAAT TCTGTACGAA AGAGGAGGGT GTTTACTTC CTGGAATTAT AGAGGCCAGA GGTGTCTCTT
TTTCAATTTA TTGGGAAGGT TTATTTTAAT ATGGACTTAG AAATAAATAA CTTATTAAAG TGAAGGTTCA CCTGGAGCCT
TAGGCTGGCT GCTAAGTGTG AGTCTGGGCT GTTGAAGGGA CTGTNCTGTT CTNCTGGGTC TCTGTAGGAG TTTGAAGGAG
AAGACTGGCC CCAAAGGGTG TTTGAACAGG TTAGATGTGC CCATTGGTTA GAACTTACTT GGATAGGGAG AAGGGNTCTA
GGGCGTATCC ACAAACTT

SEO ID NO:572: (Length of Sequence = 375 Nucleotides)

CTATTICCAG AAGIGACAGC ACAAGICIGA GITGCTGITT GGICTGGIGA CCTCAGACAC ACTAATITGA AITGAAAGCI AAGAGTAAAA AITINCIGGI TACAGGCGAG TCATACTCITT GCAAGITAGIT AGCAAAGGGA GGCCCAAATI CTCAAGGITG TIGATGGGGA ACTIGCCACT AAGAGAAGGC AGAGAGGTCC CTAGTGGGTA TATTINCIGC CAAGCCACTI GCCAAAGAAG AGGAACCACA GAAAGAGAGA CATCATGACC NGGAGAAAAA TGTGACTAGA CATGCTAACC TCCAGGINIT TATATATGAC TIGAGTCTGC TGTAATTGGC AGCAGAAATC CAAAATTTGT ATGGGTAGAC CACAA

SEO ID NO:573: (Length of Sequence = 396 Nucleotides)

GAATCCCCAA AGGAGAGGAG CTAACCTATG ACTATCAGTT TGATTTINAG GACGATCAGC ACAAGATCCC CTGCCACTGT
GGAGCCTGGA ATTGTCGGAA ATGGATGAAC TAAGAAGCTT TGAGGCTACC AGGCAGGGGA GTCCCCCTAC CCACAANCTC
TTCCCTGAAA GNAATNGAGG GGGAAGAGAG GTAGCAGCCA GAGCCAGGAC CCAGGGTTGG GGCTGCCGGC TGACCCGGAG
CCCCTGGAGC AGGAGGCTGG GGCAGAGGGC CCTAGGCCAA GCCCACCCTG GGCACCAGGG ACAATCCTCT TCCCCACCAC
CCGCCCTCAG GCTGGCATCT CTGCCCCCAG CTTCCAGGAG GGGCCAGACA GAAGCAGCCA TTTGGCATCT CAGGTT

SEO ID NO:574: (Length of Sequence = 373 Nucleotides)

CTAAACAGAT TTAACTCCCT CCCAGCAATC CAGATTAATT TAATATGCTT TCTTAACGGC ATTCCGCATT TMTCATTAAA GCAAATGAAC GTCCATCCCT CTCTGATAAA TTAGGGCAAA AAAATTCATA TGTTTAGGGC ATAGGGAAGG AGGAGTTGTT GGCTGTTAAA AAAAAGAACA AAAAAAAGTA CCGCAAATGG CGTTTCAAAG TCTAGACATC TTCATCATCA ACACAAACAT TCCTCTTCAC AAAGGGACCT CAAGTAACCT TAGGCTGGAG GACCCACCTG CGTATGTTT TMTTCTCATT CTTTCTTTAC CTTCCCTCCA GGCCACCCAA CCCACATTCA GTGGCCCAAG TCACGTGGGG TTT

SEO ID NO:575: (Length of Sequence = 431 Nucleotides)

GCCCCCATTA CCTTCTTIGC TGCTACCACA ACAAGGIATA TTAGCCCTIG AAATTAAAGA TGTTGCTGTC CCAGTTGTGC
TTGTCTTCAC CTAAATGCAT ACAGTCATAT TCCAAAAGAC TATATATTAG TGATATCTAT ATAGTTCACC CTTCATATAC
ATGAGCTCCC GTGTGTGGAG TGAACTAATT GCAGATATAA AATATTTGGG AAAAAATTTC ATGTGTACTG AACATGTATA
GACTTTTTIN CTTGTTATCA TTTCCTAAAT AATACAGAAT AATAACCACT GTTTACATAG CATTTACATT GTGTTAGGTA
TTATAAAATAA TCTGTACATA ATTTAAACTG TACAGGAGAA TATGGCATAA GNCATATGTG GATACCACAC CATTTTATAT
CAAGTACTTG AGGCCTCTGC AGATTGTGGT G

SEO ID NO:576: (Length of Sequence = 410 Nucleotides)

GATGCAAACA GCCCCAAGGA GGGAGGTGGA AAGGCCAAGG GGCTTGCCCT CCTGCAAGCG CGCCTGTAAA CAAGTCCCCG
TGGGGTTTTG GGAGGTGCGC CCACATCTAA GACTGTGCGC CCTGCACTCC CTCTGGATGG CTTGCCGAAT TTGGTCTTCG
CTGATCACCA ATTCTGGAAG GGTGGAGAGA CAGTTGGCTG GACAGCTGCC TGATTCGGCC ATGACCCTTC ACGGGTGTCT
GTGGGCCAAC ACCAAACGCC AGCCTGCTCT GCTGGCAGGG CTTCTACCTG CACAGTCCCT AGGGCTGCAA GAGCAAATGG
GGACCCTGGC TNCCCGGTCCT TNCCAGGGCC TTGGTCAATG ACATCACCAC TTTCTTAGGA CAGCGTCTTG GGGAGCTACC
GGAACTTTCG

SEO ID NO:577: (Length of Sequence = 405 Nucleotides)

GAATGAAAAT GGCATATTIG AACATAAACT TAGGGCAGAT TITTACTACT TITGAAAAAA TGITGGAAAA TATTICIGIA
TGAAACGIAA AACAACTITT AATTITTITI AGAAGIIGAG AGGATICIAT TITGCAAAGC TGIAITAIGA AGCTAAAGAA
TATGATCITG CIAAAAAGIA AGIACAAACT GIAACAIGIA TICITTITITT AAAATCAATG CCITINCITCA TITINCITCIT
TGAAAATAGGI AAAAATAIGI CCITAGIAGI TCITCCIAAG TGIATTCIGG AATAAGGGAT TIATCACTCA GACTGATGCT
AAGGACCAGC CIAGATICCA TIGAGATIGA AACCGIAATT AGIGITTICT GCATGCTGCT GCTTTATACC AAGGGCAAGA
AATTG

SEO ID NO:578: (Length of Sequence = 406 Nucleotides)

CECTACAGGG GGGGCCTGAG GCACTGCAGA AAGTGGGCCT GAGCCTCGAG GATGACGGTG CTGCAGGAAC CCGTCCAGGC
TGCTATATGG CAAGCACTAA ACCACTATGC TTACCGAGAT GCGGTTTTCC TCGCAGAACG CCTTTATGCA GAAGTACACT
CAGAAGAAGC CTTGTTTTTA CTGGCAACCT GTTATTACCG CTCAGGAAAG GCATATAAAG CATATAGACT CTTGAAAAGGA
CACAGTTGTA CTACACCGCA ATGCAAATAC CTGCTTGCAA AATGTTGTGT TGATCTCAGC AAGCTTGCAG AAGGGGAACA
AATCTTATCT GGTGGAGTGT TTAATAAGCA GAAAAGCCAT GATGATATTG TTACTGAGTT TGGTGATTCA GCTTGCTTTA
CTCTTT

SEO ID NO:579: (Length of Sequence = 374 Nucleotides)

GIGGGCCTGC TCTGGAGTCC ACATTCGTAA ATATTATGCT GCAGTAAATA TTAATCTTGA GAACTAGGTG ATATGGTTTG
GCTGTGGCCC ACTCAAATCT CATCTTGAAT TGTAGTTCCC ATAATCCCCA CATATCATGG GAGTAACCTG ATGGGAGGAA
ACTGAATCAT AGGGCAGTTA TTTCTATGCT GTCCTCATAA TAGTGAGTTT TCACTATATC TGCTGGGTTTT ATAAGGGGCT
TTCCCCCCIN CCTTTGCTCT GCATTTCTCT TTCCGGCCAT TATGAGAGGA AGGACATGTT TGCTTCCCCT TCTGCCATGA
TTGTAAGTTT CCTGAGGCCT CTTGAGCCAT GCTGAACTGT GGAATTTAAT TAAA

SEO ID NO:580: (Length of Sequence = 396 Nucleotides)

CAGAATAAAC ATTIACIAIT AGGAGAGICA AATCATTIAT TITCACATGA AAGAGATTAA GIAAAGCAGA ATCITTGATG
GICTGCTGTG AATTCITCGC AGTGATTGAG AAATTTCTGA AAACCACTTC CAAATCAATT ATAATATTAA GIAAACTTTG
GCTTTAGGAG TAAGAGAGAG AAGGICTGCG TCCATGTTGG GAAAGAATAG ATATGCCCCAC AATAATTAGT CTATTACTTG
TTTGAAAAAGG GTGATTTCCT CGTCATTTCA AAGTATTAAG CAAATAAGGA CATATTGAGT ATGTAATTCA TGGAAAANTA
AGNAACTTCT TACAGTATGA TTCCTAAAGG ATTATGGATG CCATTATCCA TTTTGGAGTT GGTATTGAAG CTTATC

SEO ID NO:581: (Length of Sequence = 449 Nucleotides)

CIGCICCGIG GCIGITICAA AGACIGGGG AAAGCCIGIC CGGAGGGCAG ACCAGGIGCC TIGCCGCAGA GAAAACACCA
NAGICICCIG TICGCTCATA AAGAAGITIT TGGGATGGGA GAGAATCAG ACCATCITGG GGCAGCCANG CCCITGCCIT
CATITITACA GAGGIAGCAC AATIGATICC AACACAAAAC TCCTICCCCI TITIAAAATG ATITCIGITC TAATGCCATA
GATCAAAGGC CICAGAAACC ATIGIGIGIT TCCTCTITGA AGCAATGACA AGCACTITAC TITCACGGIG GITTITGITI
TINCITATIG CIGIGGAACC TCTTTIGGAG GACGITAAAG GCGGTTITA CTTGTTTTT TAAGAGIGIG TGATGIGIGI
TTTIGIAGGAT TCTTGACAGT GCTGTAATAC AGACGCAAT GCCAATAGCC

SEO ID NO:582: (Length of Sequence = 261 Nucleotides)

CCAGCAGGTC GTACTTGCAG TGGCAGGGTC CCGGACAGGG CCGCGTCAGT GTGCTGAGGT TGGTCGCGGG CACTGGCTTC GACAGTGGCA TGACCCGAGG GAAGTGGCGG CGCGAGGGCC TCAGGGGGGCT GAGCACGTCC TTGCAGAGGG GCGGGAACGG GINCIGCIGG TAGIGGCCAA ANACCICGAA AACAATGGGC INGCICITGA TGTACAGGIG GCGITTATIT TCATGGATIT ATACACACIG GAAAAGCCIC T

SEO ID NO:583: (Length of Sequence = 399 Nucleotides)

CCCAGGCCAC CATTTAAAGC AGCCATTCCT GCCAAAGAGC CAACATTGAG GCCAGCCGTT GCTCCAGCTA ATGTCTGCAG
GGCTCCAAGT GAGGCTATGG GGTTGACAGA ATTACTGCTG CTAGAGCTAG GTGAGGACCC TGAACTAGTG AGCACGCTGA
GGGGACTGCT GGATGTAGTG AGAGCATTGG TACCACTTGG TGTGTTCTGA NNTGCACTAG CTGCAGCAGC TAGTGCAGCN
AAATTCTGTA ACTGCATTGC ATTCAACCCT CCCATTGGGT GGAGGCTGCT CAGGGTGTTG AGGTTCCCAG AGGAGGCAGT
CTGCTGAAGG AGTGCTAAAT ACTNGGGTCC AAGAGTATTT AGACCAGCAA GGTTTCCCCA CACAGATGCT GCGCTGATT

SEO ID NO:584: (Length of Sequence = 441 Nucleotides)

GTTGTTTTTA AGGATTAAAT GAGATATTAC ATGTAATGTG CTCATCCCAG TGCCCAGCAC ACAAGAAATG TTCAATAAAA
TAGGAGGCAT AATTGTCCTG TTTGAATACT AGATAACCCT TTTAATGGAT ATTCTACAAT TATGAATCTA AGGTGCTTTG
GAGGAGCCTA GGCAATCTAT TCCAAAATTA AATGTAAGGA AGGTACATGA GTAAGGGATG GAGTAGGCCC TGGACCAACA
CTAGGAGCTCC AAATTTCCTA AAAAGCTTGA GCTTCTTTTA CTGTGGCCAC GCCTATAATG GGAATAAATC TGGTTCTTCA
AACAGTCCCT CCCCTCTCTA AGCTCTGCTG GGGAGTAGAG ACATCAGCAG GCTGGTTCTG TGNTTAGCTC CTCCCCATCT
TMGACTCTCA TCCCATTCCC TCTTTCCTAC TACCCATTCA G

SEO ID NO:585: (Length of Sequence = 326 Nucleotides)

GAAATGCAGG TICAGCTATT INCTGCTTGC AGAGTCCAGT TAACAAAAGT GAGTNCTGT ATAAAGAAAG TNATTTTTTT
TITTTAAATT ATTCCAAAGC TAGCTGAGGG GAACAAGTAC AGGCTTCCTG CCTAGGGTA TCACTTTGCT TITGGAGCAG
GAAGTAAGCA CTTTTAAAGG GGGCTTAACA TGAATGGCAC ATGGGGTCGG GGGAAGTAAG CAAGTGCAGC ATCTACATGT
TAGTTTGGTA CCTTATCTAC TAGGTAGTCA AGGTGGTGAC TGCCTGTNTC TITGTGGGGC ATGTGTACTT TGGGGTTGTA
AATTGG

SEO ID NO:586: (Length of Sequence = 431 Nucleotides)

GAACGAAGGA AAAGCATCAA AACCTACAGA GAAATTNITC AAGAAAAAGA GCGGAGAGAG AGAGAGCTGC ATGAAGCATA
TAAGANCGCT CGGTCCCAGG AGGAGGCAGA GGGGATCCTT CAACAGTACA TIGAGAGGTT CACCATCAGT GAGGCTGTTC
TCGAACGCTT GGAGATGCCA AAAATTCTGG AAAGAAGCCA TICAACAGAG CCAAATTTAT CCTCCTTCCT GAATGACCCC
AATCCCATGA AATACCTGCG GCAACAGTCA CTGCCTCCAC CCAAATTCAC TGCCACTGTT GAAACCACCA TIGCTCGTGC
CAGINITCTG GGATACCAGC ATGTCAAGCA GGCAAGTGGG GTCINCAAGC AAAACTTGTC ACTTCCCAAA AGCAAGTGCC
TATGCTTGAC ANCCCAGGCC TTACTTCCCA G

SEO ID NO:587: (Length of Sequence = 338 Nucleotides)

CTCAAGCAAT TCTCCCACCT CAGCCTCCCA AATAGCTGGG ATCACTGGCA CAAACCACCA TGCCCAGCTA ATTITGTATT
TTTTGTAGAG ACAGGGTTC ACCATGINGC CCAGGCTGGT CTCAACCTCC TGGGCTCAAG CAATCCTCCT GCCTCGGCCT
CCCAAAGTGC TGGGATTACA GATGTGAGCC ACCGCATCCA GCCCCACACC CTCATTTATA CCAATTACCT GCCCAGTAAC
TGTGGACTTT TGCTTCCTCA CCCCTGCTCT GATCTGGAAG GAGAGGGATT ATGTTATAGC TTGTCAGCAC AGTCCCAAAG
TTCAATATTT CTGCGGGC

SEO ID NO:588: (Length of Sequence = 277 Nucleotides)

AAGAACAITT AAGIAGITCA TACAAAGAA TATAAATTGI NCITAAATAT ATCAAAATAT ACTCACCICA TICATAGIAA
AAGAAATAAA AAACIGIGCI CIGATGACAT TITICATCIA TGAGATTTAC AAAGNICIAA AAATTGAGAA TATACATTIC
CIATIGCCIT TGGATGGCAA TITIGGCAGIA ACIATCAAAA GIATAAATAT CIATACCCIT TGAGGIGICA ATCICATITIT
AAAGAATTIA TICITCAGCI ATGIACATAC ATGIAGG

SEO ID NO:589: (Length of Sequence = 353 Nucleotides)

GTAATGAATT ATAAGAATCT GAATTGAGAG CIAAAATATC TGGGTTGTAG GCCTACTCTG CCACGNTTIT MITATTTGCA
AATATTAGAG CTGAACTAGA TGACCTCAAA GGCTCTAACC AACTCCAAAA CCTACAATTC AATGGCTGAC TGATATACAT
TGTATACTCT TTAAAAAACAA TTAAAATCAA AGANGNTAAT AAATGTGTCA TGTATTATAC AACTATTATA CACGTGTGTG
TGTATATATA TATATNININ CACAGAGAGG AAAGACATCT ATACATAGNC ATAACCATCA AATCAGTCAG AATTTCCATC
AGACACTTIN CATTTCCCAG GTCCATCAGA TGG

SEO ID NO:590: (Length of Sequence = 364 Nucleotides)

CTCATATACA TAAAAAGTGA TAAGAATCOG AAAAGACAGC CAGGGGAATT AAATGCCAGT TGGGGCCAAC GGGGCCCTGA
TCACGGAAGA GGGCGCCCCC AGCTCTCAAT CTTCACACAA TCCCTGCACC CAGGGTCACA GAGCATGCGC AGGTCCTTCC
CGCCCACTTC CGGGGCAACT GCCAACCACC GCGCAGGCTG AGCCCCAGGC AGGAAGCAGC CCACTTGGTG GGGTTGGGGT
ATGAGTCCTT CCTCGCGGGG GCTCGGTGGG TCCTGAGTAT TCTTTGGCCG GATTINCTGA TCCGTCTGCT CCAGGTGAGC
TNGGGAAGGC CCCAGGAAAA GGCCCANAAG GGCCTTTGCC AGGG

SEO ID NO:591: (Length of Sequence = 311 Mucleotides)

GAAAGGGGAA TAGGGAGITA ACGITTAATC AATAGAGITT GGGAAGATGA AAACGITCIA GAGATGAGIG GIGGIGATGC CACATAACAA TGIGAGGGGIA CITAATACCA CIGAACIGIA TGITTAAAAT GGCAAAAAGG GIAAATITTA TGITATGITAT AITITACCAG AATITITITT TTAAAGCITA CIGCATGGGG ACCAAGCGIG GIGGCICACA CCTGTAATCC CAGCACTTIG GGAGGCCNAG GCGGGIGGGT CACTTGAGGT CAGGAGTTCG AGACCAGCCT AGCCAACATG TIGAAACCCC G

SEO ID NO:592: (Length of Sequence = 358 Nucleotides)

ATTITIGETT CIACCCATCA TCCTCCTCTC AAAGGAACCA GGGGTCCTTG GGGATTTGGC TGATGCCAGG GGATGGAGAG
TGTCAGTTGG NTCTGAAGGG GAGGCTCGCA GCATGTGTGT GGCAGGTCAG ACAGACCCAA GAGCCAGCTT GGTGGGGCAT
CCCTGGCTAC CCTGGGGACA CAGTGAGCGC CGAACTAAAT AACATCAGGA ATGGNTCACA ACGCAATGAG TAAGGGGAAT
CTGAGTCTAT AGGGATACAG ACCCAGAGGT AAATNGCCAT GGCCACCCAC TTTCCTACAG GAGAATGTGA CTAGTTGAGC
GTAGGAACAT GGGAACAAAT GGTAGAGGTG GCTGACAT

SEO ID NO:593: (Length of Sequence = 354 Nucleotides)

GACAGACTGA AGGAATATAT GCAGCTTAAT TTAACATTTT TTGAAATTTT ATATTGCAGA AGTTGTACAT ATTINCTGTT
GTGAAATTAG AAAGANTTGA CAGGCAAGGA GGGTGGTCTA CAAAGCACTC CATAGATCCA CCATACTGAG ACAATGCTTA
ATGCTTTGAT GGATTTATTT ATTINATACT TTCTATGCAT ATGCATGTAT TGTATAAATA CGNATGCATG GTTAAATAGA
AATGGTTCTC CTTGGTGTTC TGTTTATCCA TTTATTGTTG TGAAGTAAAT CCCCAAAGAG GTAGGTTTGC TTTTGCCTGA
GGAGTCTTTT GCTACATACT GGCTGTACAT AATG

SEO ID NO:594: (Length of Sequence = 319 Nucleotides)

GAACATGGCC GTGAACTGCT CGGAGATGCG CTTGAACAGC TCCTGGATGG CCGTGCTGTT CCCGATGAAG GTGGAGGACA
TCTTGAGGCC GCGGGGGGGG ATGTCACACA CGGCCACCTT CACGTTGTTG GGGATCCACT CCACGAAGTA GCTGCTGTTC
TTGCTCTGGA TGGCCAGCAT CTGCTCGTCC ACCTCCTTCA TGGACATGCG GCCCCGGAAC ACGGTGGCCA CCGTCAAGTA
GCGGCCGTGG CGCGGTCGC AGGCGCCAT CATGTTCTTG GCATCGAACA TCTGCTTGGG TGAGCTCGGG CACGGTCAA

SEO ID NO:595: (Length of Sequence = 370 Nucleotides)

GAAGAATANA AAGAAAAATC CAAAATGAAG AGTATTATAC AAGACAACTA GTCAATAGTC TTCAAAGTGT CAAGGTCATG
AAAAATTGAG GAAGCATCCC AGACTGAAGG GGACTAAAGA AAAGTGACAA CTAAATGTAA TGGGTGATTC TGGATTAGAT
CCTGGAATTG AAAAAGAACA TTCATGGAAC AACTGACAAA TTTGAATAAG GTCTGTAGAT CAGTAACAGT ATTGCATCAG
TGTTAATCTC CTGGTTTAGA TCATGTCCTA ATGGAAATGT TTTGTACTAT TTTTTGTGGA CTCTTAAGGA ATGTGGGTGG
AGGACACGA TGAGACCTAC TTGCATCGAC AACAAGGCGT TCTACGGACA

SEO ID NO:596: (Length of Sequence = 335 Nucleotides)

CCACAGAGCC CCACACTCCCC CCACAGGAGC CAGCTCCCCC TCGAAGCCT GGAGCAGCCG GCCTGTGACA CCTGAAGCCG
CCAGCTCGCC ACAGGGGCCA GGGAGCTGGA GATGGCCTCC AGCGTCAGTG CCAAGACTGA GCGGGCCCTC CAGTGTTGTC
CAAGGAAATG TAGAATCACT TTGTAGATAT GGAGATGAAG AAGACAAATC TTTATTATAA TATTGATCAG TTTTATGCCG
CATTGTTCGT GGCAGTAGAC CACATCTGTT CGTCTGCACA GCTGTGAGGC GATGCTGTTC CATCTGCACA TGAAGGACCC
CCCATACAAG CCTGT

SEO ID NO:597: (Length of Sequence = 336 Nucleotides)

CTCCTGAACA TCACAAACTT GGTTTCTACC TACCACAGA GTAGCCAAAA GAAAAGAAGC ACTAATAGAG AAAGGGGTGT
CTCACACCAG ACAGAGGACC TCTGCTGTCA ATTAGATCCA GTATCATGAC CTAACTTTAA GTGTGGAAAA GAGTTCAGAT
CTCTGAGACA CTGTGAAGAA ATGGATGGCT CATGTAACAT CTCTGATCCC TCAGTCCCCA ACCCTGGACG TGTTTCATTT
ACAACATTCA TAGGAGTTAA CTTAGCAGTG TTGCAAGTTA AGGTTNCAAA CCAAATTATT TAATCAGTGT CCCCCCAATA
AAATCACTTA TCCCATTTTA TTGCTAGTTT AGTTTT

SEO ID NO:598: (Length of Sequence = 402 Nucleotides)

SEO ID NO:599: (Length of Sequence = 369 Nucleotides)

CTCAACAAAG TITGGATTIT NICCACGATG ACTCCITGGG TGAATTITIA ATCAAGITAT TICAACCATT TINCTCATAT
ATTTCGTGCA TCCCTATTCT GGTATTCAGT GAATACATGG GAGAGGTATG TNATTCTCAG CTCCCACAGC CCATAAGTCG
GGGAACCAGG ACTTCATTCC CCTCTGCTCT AACTCAGACT GTGAGGTCAT TGAGGGCAAG ACTGATGAAT TGTTCCTCTT
CCTATCACTG GTGCCAAGCA CAGTAGTTGG CATAAAGAAG TTACTCAATA AAGAGGGGGT GAATTTAATG AAAGACAAGAG
GAAGGNGGA CCTGGGGGAA GAGTTGGGCA TAAAGTCAACC

SEO ID NO:600: (Length of Sequence = 342 Nucleocides)

COGCUTACTO GETTCAAGCA ATTCTCCTGC CTCAGCCTCC CGAGTAGCTG GGACTACAGG CGTGCGCTCC ACCACCACGC CCGCCTAATT TTTGTATTTT NAGTAAAGAT GGGGTTTCTC CATGTTGGCC AGGCTGGTCT TGAACTCCTG ACCTCAGGTC ATCCGCCCGC CTCGGCCTCC CAAAGTGCTG GGATTACAGG CGTGAGCACN CGCACCOGGC CAGCTGCTTC TATTTTAATC TGAACTTGGA AACACCTTCC TACTTTAAGG CACAGGATCA GGGTAAGAAC CCACATGTAC GAGCTAACAG AGCTGCACTT CAAATTTACT TAAGTTAATT AA

SEO ID NO:601: (Length of Sequence = 319 Nucleotides)

AGTACTATIC TGCCATAAAA AAAAGAATGA GATCCIATCA CITGCAACAT CITGGATGGA ACTGGAGGIC ATTATGITAA GIGAAAATAAG TCAGGCACAG AAAGAAAAAC TITGCATATI CICACTCATI TGIGAGAACT GAAAATTAAA ACAATTGANC TCACGGAAAT AGAGGIATA ATGATGGITT CCAGAGACTG GGAAAGGIAT TGGGIGGGG GCAGGGAATG GGGAAGGITA ATAAGTACAA TGCAATGAAT ACGATCINGI ATTITACAGC ACAAAAAGGGI GGCIATGGIC AACAATAATI TATAGTACA

SEO ID NO:602: (Length of Sequence = 334 Nucleotides)

CACCCACAGA CIGCCAAGIG GGACAACTIT CIGGCITTIG AAAGGCICCI TCITCAGAGC ATTGGGGAGI CAGCAATGIC CGITGIGITIA AATCAGCIGC TGCCCATGAT TAAGCCIGIA ACCCAGAGAA CCAACGAGGA CIACAGCCCI GAGGAACIGC TGATCCITCI CATATATATI TAINCIGICA CIGGAGGACT CACGGIAGAC AAAGACCIGI GIGAAGCAGA AGAAAAAGIC AAGAAAAGCAT TGGCICAGGI CITCIGIGAG GAATCIGGAT TGICACCITT GCIGCAAAAA ATTACGGACI GGGGACICIT CAATTAATCI GACA

SEO ID NO:603: (Length of Sequence = 410 Nucleotides)

TITICACCATG TIAGCCAGGA TGGICTOGAT CITCIGACCI TGIGATCOGC CIGCCTOGGC CICCCAAAGI GCITGIATTA CAGGCGIGAG CANCOGCGC CAGCCAGGAT TATTATITIT TAAATCAGAG ACACTGAGIA CCACCIAAAG GGACITAAAT TATGCAATTIG GAATGAAACI AAAGIGAATT GAACATTIAG TITCACTIAG ATTITATITIT TCCTGCCAAC TGTCATATGA GAGTTAAATTA GGGAGCCCAG ATTAGACTTA GAGAAAAATA AATAAATTAC ATTITATCTIG CACACATGAA TTCTAGAGTIG AGTTAAAATTI ACCACAGCGG GGCATATATA TGTATATATA TGATACCNIG TTTTTATATA GCTCCNIATA GTTTTAAAAG CACTTTGTAC

SEO ID NO:604: (Length of Sequence = 399 Nucleotides)

TCTCTAAGCA AAAAGAAAAT GATGAAAGAA GCAAACTIGG AGCATCAGAA AGGAAGAAAG AACATGATAA AATGAAAATA
TGAGCICCIA TTATGAACAT CGIATTACCA TTCATTGIGA AACTTAATCG TATATTTATA TATAAGCATC CTTCAGAGAT
GCTGIGGGIT CAGITTCAGN CCACTACAAT AAAGTGAATA TAGCAATAAA GCAACTCATA TGAATTTTTT GGITTCTCAG
TGCATATAAA ATTAANCTIC ATGCTATACT GTAGTCATTT AAGCATGCAA TAGCATTATG TCTAAAAANT GTACATACCT
TTATTTAAAA ACGCTTTTAT TGCTTAAAAN AGGCTAAATG GCCCATCIGA GCCATCGGCT TTTTTCCTGG CAGAGGGGG

SEO ID NO:605: (Length of Sequence = 372 Nucleotides)

ATGCCTTAGA AATCCTACCA CCTCCCAGAA ATGATAGITA TGGAAATTAA CATGGCATGT CAGATATGGT TCGCTGATGC CTTGCTTTAG TTCTCAGAAA TAAGGCTTTA AAAGACTGGC ATGTTTCAGG ATTGCTGTCA GGAAATGATA ATTTAAAATA CCCAAGAGTA CACTAAGAAT TATGGAAGCA TCTGTGAAAC TAATAAGCCA GTGGACATAC TGATTTTTAC CAATGTGTCT ACATACTATA TTAAAAAACT TCCTACAAAG TATTGTCCCA ATTCAGTTCA TCTGAGGATG TGAAAACACT ACAGTGTACC TTAAAAACATC ACATTCACAA CCCTGACAGA CTGAAATAAA ATGAAATTAG GG

SEO ID NO:606: (Length of Sequence = 399 Nucleotides)

TECCTTCCTT TCTTCAATTC GAGACAGCAG TATCATTAGT GITGTATAGG TTATAATTAA ATCTAAGTAG TTCTTTGTTA
AATCAAAGTT TACAGTAATA TCAAAGAAGA CTTGGCAAAC GTCAATAGTA TTCAGCAATT CACAAACATG GTCCTTAAAT
TCCATAACAT CTACAAATGT GAAGTAATAT AATGCCAGAT TTTNCAGAAT CTCTGATTTT CCTTTCTGTA GTTGTGCAAG
CTGTTGATTG TTGTTGCGGG TTTCTACAGC AGGGAATTTT CTGACTATGA ATTTCACAGC AGATTCCAGG NTTTTGTCGA
TAAGATAGGA TGGNTTTGCC NTGGGGACTCC CACATGCCNT TCTTGATGTT GTAGAGGCGG GTGAGCATCC CGACGGCCC

SEQ ID NO:607: (Length of Sequence = 412 Nucleotides)

CTGTACCCTT ATAAAGAGTG AAAGCCCTGC CCCCTTCTCC TATAGAACCC CTAGCAAGGA GACTGGAAGA MTCAAAAACA
ATCCACCCAA AAAATGGCCT GCAGGGACAC AGTCCCAGAG AAAGAGACTA TGTACAACAA GGTACAGTAA GTAAGACCTG
CCCACACACA GGACTTCCAA TCGACTTCTT AGTGCTTACT CCTACAGATG AACAGATCAA CCAGGGCCAC CAGATGCTCC
AGGAAAGACA GGAGTCCAAA AAGAAAATTC GGTAAGTTTG AATATATTTT GAGCAAATTT TCAGTTCTGT TGAAGTATTG
GGGGGACATT CAACAGTGAG TAGTAGTTTA GGGGGAACAG CTGGCACCTC TGGCAGTCGC CTCAGAGGTC AANCCAGCGT
MTAGGTTGCT TT

SEO ID NO:608: (Length of Sequence = 419 Nucleotides)

ATGAAGGCAG CIGAACTCTC CATCAAGITT CIGCCICCCC AACGIAATAT GGAAGTCGIT CIGGCIGTAG GACCCCAGCT GATTGGAATT GGAAGCACA GIGCAGCIGC AGAGCTCTAT CIGAATCIGG ACCITGTCAA GGAAGCAATC GATGCTTTCA TCGAGGGIGA GGAGTGGAAC AAGGCGAAGG TIGTAGCTAA GGAGTTAGAT CCCAGGTATG AAGACTATGT GGACCAGCAT TATAAAGAGT TCCTCAAGAA TCAGGGCAAA GIGGACTCGC TGGTGGGTGT GGATGTGATA GCTGCTTTGG ACCTGTATGT GGACCAGGGC CAGTGGGGAC AAGTGCATTG AAACAGCTAC CAAGCAGAAC TACAAGATTC TGCACAAGTA TGTGGCTTTG TATGCAACTC ACTTGATCC

SEO ID NO:609: (Length of Sequence = 337 Nucleotides)

SEO ID NO:610: (Length of Sequence = 441 Nucleotides)

TAAGCCAGAG ACATTCACT GIATTAATCT TGATACTAAT TACTAAGGCT TTTCTGTGGA CATTAAATTT GATCTGTTTA
ATTGCAAATA CAATAAAAGT CGTGATTTAT GCTTAATGTT TCTGCTAGGC TGATGACATT TTGAAAAATGG CACTTATAGC
CTGGTTTGTC TTGGTTACAA CTTTTGTGGC TCCAGATGCT AAAAAAAATC TAATTGAGTA AGTAAATAAT GCAGCTAAGC
GTGCCTCTCT CGCTTCCGAA AAGTTTTTTC TACTCCTTTT TCTCCCTGGA GAGGCCCTGC TGCACACTGA TGCTGATCTA
AGGAAATGCC TTTGCTTCTT TGCCACTGAG CAATGTTAGA ATCACTAGGA GGGCAGGGCT ATCCCACTGG TCACTCTGTC
CCAGCATATC TACCATGAAG TCAGCAGGGA CTACAAACTC C

SEO ID NO:611: (Length of Sequence = 344 Nucleotides)

TTTGGTACAG TAATTAGGIT TGGTTGATTC GGTTATGGGG GTATACACGC ACATGCAAAC ACACACAGGG TGTGCGTGTG
TGTTATAAC: GGTATACA CATGCACACA TATACACATA TGTTATATAG GATGTGTGTA TATGTGTGTA LATATATAGG
GTGTGTATGT ATCCTATATA TGTCCATATA CATGTATATG TAGTATATAT ACATGTATAT GTACACATGT GTGCATATGT

GTACATATAT GTGTATATAT GTATATATCC CACATCTCCA ATTINCCTAT ACGTATATAC ACACATATAT GTTATATAGG GTGTACAGAT ATAGGATATG TGTG

SEO ID NO:612: (Length of Sequence = 384 Nucleotides)

TGATGACCAT AAGCCCATGC TITTCATAGA TGITIAAGGG TIAAAIGAGG TAATGCATGI CGAGIGCICA GCCAACIGAG ATTCAGGAAG CGCTCAATAG ATGCTGGCTG TCATTATTAA CTGAGTAAGT AATCCTTTTC CCACAGAAGC AGIAGAAGGC TGACGATGTG TGTGTAAAAA TTCCCTGGGC CACAAATAAA GGTTTTTTTTG GTTGTTGTTG TTGTTTAAAT GAACTGAAAT GAGTTTGAGA GATTCATATA TTATTTTACA ATACTTCTTA ATGCTAGTTT AAAAAGTTCA ACATTGTCAT TCTACTCCAC TTCCGTATGA GATAAGTATA TGAGGGGCCT TAATTCCCCG MIAAACTAAG CAAG

SEO ID NO:613: (Length of Sequence = 342 Nucleotides)

TATTTATTIT TGIGGGIGIC GACTICCTAT GIGGGCTTIT TGGGIGACAC TCCCTTAAGG GITCAGITIG ACAATICINA
GAGTIGICCI GCAGTIGGAG GCCACCAGAG GIATCTAAGC TCCCTGCTTC CIATTINATA ATCCTCCAGC CCCAGCAGGI
CCACTCCIGG TTCCTGTGIG TTTGGCCCGG GCACAATCCC CACTGCTTTG CTAGACGIGC TTTCTGCCAT GIGGCTTTGG
GCCTAGAGCT TGITGATAAT TGCAGCTTGT GGCAGTGGAA ATATGGCTGA ATGAGCGTCT AAACCCCTGG GINGGGGCNC
TNAANINCNN GGGTTTTTAA AA

SEO ID NO:614: (Length of Sequence = 393 Nucleotides)

CAGIGITATT AACAATAGCC AGGAGGIGGA AGCCACCTAA ATGTCCATCA ACAGATGGAT GGATAAATGA AATGTGGTCT
ATACATACAA TGGAATATTA TICAGCITTA AAAAAGGAGC AAATCCTGCC ATGTGCTACA ACGTGGATGA ACCTTGAGGA
TGTTTTGCTA AGTGACATAA GCCAGTCACA AAAAGACAAA CGCTGCATGA TTCCATTTAT ATGAGGAATC TAAAGTAGTC
AAACTCTTAG AAAGTAGAAT AGTGGTTAGC AGGGGTTAGG GGGAGGGGAA AAAGAAAAGT TACTGTTTAA TGGCTATAGA
GTTTCAGATA TGCAATACGN NAATTTCTGG GGGATTCTTT TGCACCACCA ATGTGCACCG TATAATTCCA CTT

SEO ID NO:615: (Length of Sequence = 310 Nucleotides)

ATTATATACA TICCTTTACT GATITITIAA AATTGIGICA ATATCITCAG TGAACTCTTA ACAATCIGGG GAACTGITIT
CCTCAATTAC CACTICAGCA ACGITCATAC GAAATCAAGG CTIGCCTTCA TGICAGIGIC AGGNICAACT TTAACTCGAA
GGITTIGIGIT TGICTCTAAC ATCTICAGAG TGAGCTITTAG GGATGCCTGA AGGATGGACA GTACAAGCAA GCAGCTACTT
CCATGATACA GTGGGAAGAT AAAAAGGCCC ATTCAGTCCA GCCGTGACCT GTAAATCCAG CTTGCCCTCC

SEO ID NO:616: (Length of Sequence = 266 Nucleotides)

GAGATGGAGT CTCGCTCTAT CACCCAGGCT GGAGTTCAGT GGCACGATCT CGACTCACTG CAAGCNCCGC CCCCCAGGTT
CACGCCATIN TCCTGCCTCA NCCTCTCGAG CAGCTGGGAC TACTGGTGCC CACCACCACT CCCAGCTAAT TTTTTNTATT
TTTGGTAGAG ACGGGTTTC ACGGTGTTAG CCAGGATGGT CTCGATCTCC TGACCTCGTG ATCCACCCGC NTCGGGCTCC
CAAAAGTGCTG GGATTACGAG CGTAAG

SEO ID NO:617: (Length of Sequence = 376 Nucleotides)

ATAATAATGA AAAGTGAAGG GTGGGGGTGC TGGCCACCTC CCATTTCTTT GCCTGGGTGG TGGTGACCAC GGCGCCCTTG
TGTCCTTTCC ATTGGTTACT GAGGACCATT GCCCTCATGG GCCCAGGCCA CAGGCACCCA CCTGTNAGCC TCACCTGCCA
CCTCTCTCCA TGTTGGCTTN TTGCCCCTGG GGCTGGCCTG GGCATGGGG AGCTTAINNTC CCCGACCAGG GGCTTGGCCA
TGTNTCCTTC ACAANCCCCA CTCCCCGCGG ACTGAGCCTC CACTCTCTGC TGGGCTGAGG GCTCTGTGGT NGCCCAGGAG
CCCTCCCAGC CACGTGCCAG CCCATCCCAT CATCAGCACT TGGTTTTAAG CTTCAA

SEO ID NO:618: (Length of Sequence = 352 Nucleotides)

GCCCATCCTG GCTAACACGG TGAACCCCGT CTCTACTAAA AATACAAAAA ATTAGCCAGG CGTGGTGGCG GGTGCCTGTA
GTCCCAGCTA CTTGGGAGGC TGAGGCAGGA GAATGCCATG AACCCGGGAG GTGGAGCTTG CAATGAGCCA AGACTGCGCC
ACTGCACTCC AGCATGGGCG ACGGAGCAAG ACTCTGTCTC AAAAAAAATAA TAATAATAAT AAAATAAAAA GTTTGTTAGT
ATTAGCAGAT ACATATTACT AGGTACCCCC CATGCTCAAT GAAGTGTTGG GNTACTCTNA AAAAGTGTCC AATCTTACAG
GTGTGACTTC CTCTGGAACT GCAAATTCTT TT

SEO ID NO:619: (Length of Sequence = 359 Nucleotides)

AAAAAAAACG ACCCCCACAA GGGGGAAGGC CCCAAGTGGG CCCCTGCCTG TNGINCTCTC TGGCTCCAGA GATGTCTGCA
TAGGCCTCAG CTTCTCACTG GCCAATCTCC TCTTCATGGG CACCAGCCAC TGCTAAACAT CCTTCCCTCA CTTCTTGTGT
AAGCTTGCTC CCCTGAGCCA CAGGTTGCAC ATCTAAACCT CAGCTCCAGG GAAAGGAAGA ACCAATGGAA GTGCCAGAGT
CCTGGGGCAA GCCAGAGCAT CACCTGTCAG CAAACCTCTG CTGGGCACTC TAAGCAAGCA CAGGACAAGN CCCAGAGTTT
AGTGTGTCCA GTATCCAGCA TGGRGACAGC ACATGCATT

SEO ID NO:620: (Length of Sequence = 447 Nucleotides)

CTCTCTCAGC ACAGCCTGGG GAGGGGGTCA TIGTTCTCCT CGTCCATCAG GGATCTCAGA GGCTCAGAGA CTGCAAGCTG
CTTGCCCAAG TCACACAGCT AGTGAAGACC AGAGCAGTTT CATCTGGTTG TGACTCTAAG CTCAGTGCTC TCTCCACTAC
CCCACACCAG CCTTGGTGCC ACCAAAAGTG CTCCCCAAAA GGAAGGAGAA TGGCAGCCTC CACATCTCGG GTTCAAGTGA
TTATCCTGCC TCAGCCTCCA AGTAGCTGGG ATTGCAGGTG TGCACCACCA TGCCTGGGAT AATTTTTTGT ATTTTTTAAG
TAGGACACGG TTTCACCATG TTTGGCCAGG CTGGTCTTGG AACTTCTTGA GGTGTAAATG ATCTINCCCC ACCTTNTGCC
TTCCCAAGTG CTTGGGATTT ACAAGGTTTT AAGCCACCCG AATCCAT

SEO ID NO:621: (Length of Sequence = 237 Nucleotides)

CAATACCCCT GENTCCTGGG GCAGGTGTTC TGGGATCCTG GACAGGAGGG TCAGGTCGAT TTTAACCCAG AGAGACCTGA
TCTCATCACT GTCCTTTAGA GGGGAGAGAA GTTCGTNCCG GCCAAAGGGG ACCAGTGTGT AGAACTGCTC CTCCAGCTCC
TTGGCGATGT CACTNGTGGT CCTCGCGTTN ATGGAGCCCTA CAGGGGCCCT AGGACCACTG CCCCCNTTGG CAGCGGC

SEO ID NO:622: (Length of Sequence = 247 Nucleotides)

AGAACGICAA TAATAACAAA CITCITCAAG GIAAAGCAGG AIGITGGAAA CCATIGCAAG GAAGCTAAAA ACCITGAAAA AAGATTAGAA GAATGGCTAA CIAGAATAAA CAGIGTAGAG AAGACCTTAA AIGACCIGAT GGAGCIGAAA ACCATGGCAC GAGAACTACG TGATGCATCA ACAAGCITCA ATAGACAATT CGATCAAGIG GAAGAAAGGG TATCAGIGAT TGAAGATCAA ATAAATG

SEO ID NO:623: (Length of Sequence = 315 Nucleotides)

AATTTAGGIT TGITTTATTI AAGITTAATG TIAATTCCAT GCTGTGTTTC AGTAAGANCA ATACAGATTC TGIATCTGTG
GCTCCAGTCA GATATCCAGT AGTACAAATN AGCTTCAAGI TACACATACT GANCAAAAGA GGITGAGCGA GCGAAGGAGG
GGAGGAGTGA GGGGAAGGAG GTAGGGGGGA GGGAAGGAG AAGAAACAAA AGANTTGAAC AGGCATGCAG GCTTTTCCAT
ACCACCTTCA ACGCTAACCT GCTTCAGTGG GAGAGTAAAG TAGGCAAGAN TGAGCAGCCA CGGATTGTTG AACTG

SEO ID NO:624: (Length of Sequence = 375 Nucleotides)

CCATGITGGC CAGGICICGA ACTCCIGGCA TCAGGIGATC CGCCCGITTC AGCCTCCCAA AGIGCIGGGA TTACAGGCTT GAGCCACCAG GCCIGGCCCG TTACTATIGT TATTITITAAA TGCATTAGTA AAAAAAAAA AAATTITAAT TGCTAGAACA

SEO ID NO:625: (Length of Sequence = 305 Nucleotides)

GITCCIAGAT TACTCAAAIT TAGIACICIT CCATCITITC TIGITGCIAT TCTITIAAAA TCACAAGAAG TCCATAACIT
AAGIAGGAAT TIGIATAAIG TAACITATIG TGAGIATAAT TCCTIACCAG CTCATAAAGA ACIATGIAAA CTTGAATGCA
TATTTTINAC ATAAAAATAG CAAAAAAAAA AAAANCAAAA AAAAAACAGT ACIGGCCIAA TACTAGINGA MITACAGAAT
ANGGGIAAAT ANIACATGNN CATCCITACA GAGIGAGCAT AAACAATACA TGGIAATAAT ATTTA

SEO ID NO:626: (Length of Sequence = 300 Nucleotides)

AGCAATCACA TAAGGAAGGC ACCTOGAGTC TAGTAACACT GTGACTCTTG CGGTCTCTTA GAGGTACTTG GTGGTCTTGG
ATAAGATCTG GAAGAATTCT TTGGATTTCC AGACATAGGC TCTTGINCTC TTCCCCTTACT TTCTCCCCAAA CAAATGGCAT
CTCTCTCTCT CTCTCTCTGT GCTGAGCTGC CTAGAACTGT GGGTGGGATC ACACAAGCAC CCTTNTGGCC ATTGCCCTTG
GGACTGTGCT AGGTCAGACC TGAAGTCAGC ACACCATTGG GTCTCACCCA ACACCTGTGG

SEO ID NO:627: (Length of Sequence = 369 Nucleotides)

GAAAAAGAGA GAGGAGAGG AGICAGGAGI GCITIGGAAC TGGAGGITIG CITICCACTG ACAACATCCA TATCINCTGC
TAAIGCCAAC AIGCICCCAA GIGICTIAGI GGGICCCACA AAGITGATCC AGCCCAGAAG AGITGCAGGG ACAGICAAGA
AACCAGAGGI GCIGCCCACA TCCCCATCAC TCCCTITCCC AACITCCCAG CCTIGCCCCA AAAGCAGCAG CTCAGGACAA
CCIGAGATAC TACTGINATG GGTCCCCGG AGGAGGACAG CAGGAGTCTG AACTCCAGAG GAGGGGGAAT AIGCGIAAAA
CAGAGAGATG GCAAGGAGAC AAGCTGINCC CAGACAGAGG GATGGGAGG

SEO ID NO:628: (Length of Sequence = 310 Nucleotides)

TTTTTTTTT TGAGACAAGA GICICACTCI ATCACCCAGG CTGGAGTGCA GTGACATAAT CATGGCTCAA TGCAGCCTCG ACCTCTCAGA CTCAAGTGAT CCTCCCACCT CAACATCCCA AGTAGCTGGG ACTACAGGAG AGCCACCATG CCCAGCTAGT TTTTNACTTT TCTGCAGAGA TGGTGTTTCT CCATGTTGCC CAGGTCGGTC TCGGAACTCC GGGGCTCCAG CGATCCTCCT GCCTCAGTCT CCCAGAGTGC TGGACCCACAC GGCATGAGCC ACCACACTCA GCCCCAAAAT CCATGATTTT

SEO ID NO:629: (Length of Sequence = 443 Nucleotides)

CGCAGAGCAG AGGGTGGAAA GGCAAAGAGT ACAAGTGAGC GAGCCCTTTT TGTGATGGCG TTGATCTGTT TACAAGGGGA
CTGCCTAAAC ACTITCCATT AGCCCCCACT TCCCAACACT GTTGCAGTGT TGCAGTTAAG TTTCCAACAC ATGAATGCTG
GGGGACACAT TTAAATTAGA GCAGTGATGA TCAGAAAGTT ATTGTTGGGA AAGGAGGTTC TATTTTAACT TAAGTAGCTT
GAAAAAGCTC TTCAAGGAGT TGATACAAGA ACTGAGATTT GAATTAGAGG ACCGAGTAAA GTGAAGAATC TGCGGGCAAA
GTCCCAGGCA GAGGGAAGAG CAGGAAATGA TTCATCAGTA GACTTGCTCT CCCATTCTCG GCAAGGGCTA TTTCACATTT
TCTTCCACTC TCTTCCTCAG CACATCTCCA CCTGGGTTTT CTC

SEO ID NO:630: (Length of Sequence = 263 Nucleotides)

TOGATGTGGT GAAAAGCGAA CACTTATAGA CTGCTALIGG GAACGTAAGT NAGTACAACC TCTATGGAAA ACTGTATGGA GATTTTTTAA AGAACTAAAA GTATATCTAC CATTTGATCC AGCAATCCCA CTGCTGGGTA TCTACTCAAA GEAAAATAAG TCATTACATC AAAAACACAC CIGCACACAT AINITIATIG CAACACAATT CACAATTGTA AAGATATGGA ACCAACCTAA GIGCCCATCA ACCCAATGTA GGG

SEO ID NO:631: (Length of Sequence = 221 Nucleotides)

AATTITINACA TATCAGIAAT TGITTITATA ATTIGIGGIT TINATGAAAC ATTGCTATGC ATTTATTAGG AAAAACTGAA
TITCCCAACA GGTGAACTGA AAAGNTATTT TAACTATTAT ACATAATCAA GATCCTGCCT CTACGGAATT AGCTAAACCT
AAAAATGITT GCATTAATGN ATAAATTCTT CCNGCATTCC TTGGGCCNEN TCTGGAGGTG G

SEO ID NO:632: (Length of Sequence = 344 Nucleotides)

TETERATEGAE ACAAATACTT CAGTATIGGE ACCCATGGGA GGIGGICTCA CCCTTACCAC AGGACTAAAT CCAAGCTIGC
CAACTICICA ATCTITGINC CCITCIGGTA GCAAAGGATT GCTACCCATG INICATCACC AGGACTIACA TICCITCCCT
GCAGCTACTC AAAGTAGTIT CCCACCAAAC ATCAGCAATC CTCCTTCAGG CCTGCTTATT GGGGTTCAGC CTCCTCCGGN
TCCCCAACTT TIGGITTCAG AATCCAGCCA GAGGACAGAC CTCAGTACCA CAGTAGCCAC TCCATCCTCT GGACTCAAGA
AAAGACCCAT ATCTCGTCTA CAGA

SEO ID NO:633: (Length of Sequence = 378 Nucleotides)

GETCAGACCT GAAGCCGGCA CAGCGCTGTG ACTGCCCAAG ACCCCACTG TAACAACAAC CCAGCTGCCA CCTATTTCAC
TCAAGGCCCC AGGGCTCCC AATTAGCAGG TAGTGAAGCC AGCCAGGCTT CTNTCCTTCC CTCCAGTGCA GTAAGCTCCC
CTGGTCCCTA GATGCATTCA AAGGTGCTGT CTGAGAGCCA GGGCTCTCAG TCATAAACCT TATAAATCTA CCTGGNGTTC
TGTTCTACCA TCGCTGAGCT GGCACTGAAT CCACCCGGCA AATCCCTTCC CACTNTCCCC TCCCCTCTTN CCCAGGCAGG
GTAGTCTGTT NCCACCTACG ACGTCATCAC AGTCTCATGC GGGATTACTG CCAGCTTC

SEO ID NO:634: (Length of Sequence = 28 Nucleotides)

ATCAGTGGTC TACCACAGNT TAAGTAACGG GTCATATT: GAGTATCACA CATCTCAGTC TTGTAGAAAT TAGGNACAGC
AATTAGGAGT CATGCACATA TANGAGATGT AATCCCACC: TTTGACTATA GCCTACTCTT GINTTTACA GAAAAGACTG
TGGNGGAAGA AAACCCTTTA CCCINTINIT CAGGGAGAAA CINACANCAC TCANCTGCCT GGCACTGAAA ATNIGGCATC
CAGTCCACTT TACCATCAGT GTTTAAGGAA ACCATCTCTG GTAAGC

SEO ID NO:635: (Length of Sequence = 226 Nucleotides)

TTGGGATGAT GCTTTTATTA AACGGAAGCG TCCAAAAAGG TCTGAGTCAA TGGTGGAGAG GGCAGTCAGC CCTGTGGCAT
TTCAGGGCTC CCCACCGATA GTNATCGGCA GTGCTNACTG CAATGTGATA GAGATAGATG ATACCCTCGA CGACTCCGAT
GAAGGATGTG ATCCTGGTGG AGTCTCAGGA CCCTCCACTT CCATCCTGGG NGTGCCCCTC CCCTCA

SEO ID NO:636: (Length of Sequence = 367 Nucleotides)

AACGCAATAA AAAGACAAAT TCCAAAATGG GCAAAAGATC TGAATAAACA TTTCTCCAAA GATATGCAAA CAGCCAATAA
ATACATGAAA AGATGGCCAA CATCATTCAT TATGCATTGC AGAAATGTAA GTCAAAAACCA CAATGACATA CCACGTTGCT
CCCACTAGGA TAGCTACAAT CAACAAAATG GACAGCAAAA AGTGTTGGTG AGGAGTAGAG AAATCTGAAC CCTCATGTAT
TGCTAATGGA AACACAAAAT GATGGAGCTA CCATGAAAAA CTGCTTATCA GTTTGACCTC GGGAAGTTAA ACACAGAAGT
ACCACATGAT CCAGCAATTC CACTCCTAGG TATATACCCC AAGGACT

SEO ID NO:637: (Length of Sequence - 384 Nucleotides)

TICATAAAAA TITTACITAA AAICIGIAAC GCIAGATATI GACIATCCIT AGIIGAGICA CIGAGGITTA AACACAATGG
TAAGICTTAA AGICIGCIAT TIACAGAGCA TIGAATCIGT ACCAATTIGC AATAGAAAGC CITCAGIAIG CAAGAAGIIT
GCATGGGIAT TAAGAACACA GCCIAAATAA GGCATTIGAT CIAATCIGCA GGAAGAATTI TCITCCCCCAA AACAGAATTA
TAAAAGCITA CITTAAACAG GAGGCAGAAT AATTCITTTA GGAAACCATT TCATTCIGIT TCIACIAACC TATACCATCI
GAGGAATTCI AGGGAGGATA ATAAAANTCI CGIGTATTCC ACAGCAAACT TACATACCCT AAAG

SEO ID NO:638: (Length of Sequence = 409 Nucleotides)

GAAATTTITC ATCAGCICIT GITTCCTCTC ATTCTTTITG ACCTIGIAGA TITATCCTTT TITCTTAATT TATTCTCACT
TAATGGGATT TCAGGAGCAT ATTGACTAAG TITTCATTTT TACATGTATA CTGGGGAGTA TGACATAGAC ATCTCTGTAC
TTAGATATTA CTGATGTAAG TCTACTTTGA ATCAAATGAA CAGATGTTTA AAAAGTATTG TNCCCAATTG TTTTAATGAT
TTCINCCTGT GAGTTGGGGT GGTGCTGCCC ATCACCAACT CAGGACGGGT ATTTGAAAAT ACCTGGGNNA AATTGTAACA
ATGTCTGGGA AAACACTGCA GGATATTTTA ATTGGGCAGA GGGGTCAAGG GGATGGATTA ACCATTGCGG AAATGTGAGG
GACGGGTCC

SEO ID NO:639: (Length of Sequence = 197 Nucleotides)

GGITCIACTC ACGGCTCAAG AGCATGGCTC AGGAGGAGAT CCGCAGAGAG ATGGACAAGA TNATCGAGGA CCTGGAGCTC
TCCAACAAAC GGCACTCACT GGTGCAGACA TTGTCGGGTG GCATGAAGCG CAAGTGTACC GTGGCCCATCG CCTTCGTGGG
CGGCTCTCGC GCCATCATCC TGGACGAGCC CACGGCG

SEO ID NO:640: (Length of Sequence = 398 Nucleotides)

GAGAAGGAGT TICGCICITG TCACCCAGGC TGGAGTGCAA TGGTGCGGGC TCGGCTCACT GCAACCTCTG CCTCCCCGGG
GITCAAGGGA TICTCCTGCC TCAGCCTCCT GAGGAGCTGG GATTACAGGC ACCGCCCACA CACCCAGCTA ATTITCTATT
TCCAGTAGAG ATGGGGTTTC ACCATGTTGG CCAGGCTGGT TITGAACTCC TGACCTCAGT TGATCTGCCT GCCTCGGCCT
CCCAAAGTGC TGGGATTACA GGCGTGAGCC ATTGGCACAC AGCCTTATCT GCATTTTCAA ACGGCCCAGT ATGGATGGGT
TTTACACTTA TACINGAAAG GTCATCCTTT TNAAAAAANG AACCTTTAAA ACCATTAACT ATATATAAAA ACTATATT

SEO ID NO:641: (Length of Sequence = 402 Nucleotides)

ATAATTTINA GCAAAATGAT ACAAAACINI NITAACCAAG TAGAAGATIG GIAGITACAG TAGAATCGIC AGGGAGIACA
GGGGGGCCAC CACTGGAGGG AGCTGAGGCC CIGGAAAAGG AGTCTGATIC INIGCAATIC TCTCTCTGCT TTINITCCCA
GCCCCGTTAC AACCGAGTIC ACGGGGGGG CCCCAGGGG TGGCAGCTCT TGGAGTCTGT CCGTTTAGTA
TGTTTCCCCC ACGAGCGTCG CIGGGTGAGT GGCCTGGAGA GCTCCCGGTG TTAACATTTC GATCCTAGAC CGGGGGGACG
TGTCACTAGG TAAAGGCCAT TGGGTAACCA GAGTAGATCA GGCCATGGCA TTTGTCTGGC CCCTTTCACA GCAATTAAGG

SEO ID NO:642: (Length of Sequence = 395 Nucleotides)

SEO ID NO:643: (Length of Sequence = 325 Nucleotides)

GGIATCITAA AGCCTITCAG GGATTICAAT AGACACATIT CTITAGCTGA AATCIATICI CTCAGAAACT TACCCAAACT TCTTAATAAT GINCAAATIC TAAGAAAGAT ATCATGGCTA CACAGCACCA GGNAGAGCAC ATTATITCIC TTCACAATIC CCTTGCATAG CATCATGGCT TCCTAAGGGC TTTTAAGTIT ATTGCTTCAA CTGATTCTCA TAAAATCTCT GAGATGCTAT CTGGAAAGTA TTATTATCCC CAGTITGCAG ATAAGGCAAC TGAGGTCTAG ACTTGCTAAA AAATCACACA ACCAGGTAAG TGGGC

SEO ID NO:644: (Length of Sequence = 373 Nucleotides)

CTTCACATCA GCAGCOGGAC GAGGIGACTG AAAATCCAAA ACAGAAAATT GCAGCAGAAA GCAGTGAAAA TGTTGATTGT
CCAGAGAATC CTAAAATGAA GTTGGATGGA AAACTTGACC AAGAAGGCAA TGATGTAAAA ACAGCAGCTG AGGAGGTACT
AGCTGGTAGA GACACATTAG ATTTTGAGGA TGTCACAGTT CAATCATCAG GCCCGAGGGC TGGTGGTGAA GAATTAGATG
AAAGGTGTTGC AAAAGATAAT GCTAAAAATAG ATGGTGCCAC TTTAAAGCAA TCCTNGAAGG ANCCAGAGGA GCGAAGGATG
CAGATCACTG CACCCGTACC CCAAAAATTG GAAAGTCCCC TCACAGGCCA TTT

SEO ID NO:645: (Length of Sequence = 310 Nucleotides)

TTTTTTTTT AAGACTCAAG GTAATGAAAA CTATGAGTAG AATAGTAAGG TGTGACAGGG GACAAATAAG TAGATATAAA ACTATGCTGC AATATTTTAG TTATTAAAGC TGGGAAATAT GCAAATGTAA GTAGTGCTTG GAACCAGAGA AGGTTCTATA TTTAGCTGTT CTTCTGTAGC TAAATCTGAC AAATTGAAAA ATATCATATT CTCTGCTCTA GGTACATTTT ATGTATATTT TGACAGCATA TCAAATATAT GANACATTAG GTTAAATAAA TTAAAATCCA GTGGGATAAA CTATATGGGG

SEO ID NO:646: (Length of Sequence = 362 Nucleotides)

CITGGGATTG CTAGATCAGT GTTTTAGACA GGAATGCCAA GGCAGAAAAG AATCACATAT CCAGGACCAC ATAAAANCTG
GAGTGTATGT CATAACAAAT TINCTCCTGT GCTTAGAAGT TTTATGGCTT TGGATTTTAC ATTGATGTTT GCAGTCCATT
TTGAGTTACT TTTTGTATCT GATATGAAAT ATACCCAAGT NCATTTAAAA AATAAGATTA TACAGTTGTT TATGGAATGC
ATTTATGTAC ACGGGTAATC TGTTTTGATT TTGTGTGTAT GTTAAAACAT CTTTATTATA GTATTNTGTA AGAGTAGGTT
AATATTGACC TTGGGCATTT TTAAACCAAG GGGGGAATTT CC

SEQ ID NO:647: (Length of Sequence = 226 Nucleotides)

TTITIGGGIC AGATCIGIAA GITTATTIGC TCAATGIACG ACAGCTACAT AATGACTICA ATTCATGATA TICCATCACT
GAGGAAACTG CTAAAGATGG TCCGTGTGG AAATAATTCC TTAGAGAAAC ACGGAGCTGG AAAAATAATC ACTGATTAGA
CCTTAAAAAAT AGTTCACTGC ATAACATGAC AAAAAGCACA AAGGCTCATT CAGAGAACAT ATTTGT

SEQ ID NO:648: (Length of Sequence = 198 Nucleotides)

AACTAAAAG TTAAAACTIT TACAAAACAA CAAGITTICC TTAAATTATG ATTIGITATI ATAAAANCTA GTAAGAAAAA ATTCCACCAC ATGAAAGCAT TINCIAAAAT TCATACCCCC GTACCTATIT TTAANTACAG TTGGTAAATT GATTAAGCTC TATTINCATT TTGANIGATC ATCGGTTTTA TTTTATTT

SEO ID NO:649: (Length of Sequence = 337 Nucleotides)

ACATCIGCAG CCATATATGA GGICCCICAT GAGACITAGC AACAAGGIGT GITTITAATGI GACAGIGIGT CTGATGIGIC CCCAGCACAT TGGGACCAGT ACACAGIGIT ATTIGIACAT CIGCTGAGTA ACATTGAGIG TGIGGGTAAC TAAAGCCCIC AGIAATTATT TTACTTAATG TTITCAAGCT TAATTCIGAT CITGTACTIG CATGATITAT TATTCCTTGI GCTAAATTCT TCAATGITCT TGCCTTGATT GATCIGICAT TATCTATCAC TTAACTAAAA TANTAAATNC CITTAATTAA GTCATGGITA AATGAGGCAC TTIGTTT

SEQ ID NO:650: (Length of Sequence = 286 Nucleotides)

GGGTTGAAAG GAAAGGTGAC AGGAAAGATG TGTTTAGCAT CCATGAGCAG CTGGGGAGAG TCTTTCCTGT CTCGTAAACG CATCTGAGAA GATTAGGAAA AAAAATAAAC AGAGCATCAG TTCTTTGAAT CTAAAAGACT TTNTTCTACT AAAATTTCTA CCCTCAAATT CTCAACTAAT GAAGANTGTT TACTTTTGTT TTAAACTCAC TTCATTTTCC CAATTAACTA TTATCAAAAA AGTTAGTGCA TTGTAAAATA AGNTAATAAA GGNTAACACA TTATCC

SEO ID NO:651: (Length of Sequence = 360 Nucleotides)

GATAATGTAA ATTITIGCIT CIGGCCTIGI CATCAGGATI GCAATTINA GATTIAGITI GCTAATIGIT TGGCCITTGA
AAAATTATAT ACACTIGGIT TGITTIGGIT TICITAAGIC AAAACAAGGA AATAAAATCA CATTIGCITI CCAAGAAAAG
ATAATGTTIA AGIGGITGIT TAGIGITTIG TGICITTGGG GGIGGGAGGG GGIGIGIGGA ATACACAAAC ACACACACA
AAACACACAC AGICTATATA TAANCTTATT GGAGCCATCA CIATATTTTA AGGAAAATGN AAATAATCTA TIGAAGCITT
AAAATTAGGA ATTITIGATT TAAGCTAAGG AGCCTATTTT

SEO ID NO:652: (Length of Sequence = 353 Mucleotides)

GRIGGIGGENN CCTGTAATCC CAGCTACTTG GGAGGCTGAG GCAGGAGAAT CGCTTGANCC CTGGAGGCAG AGGTTGCAGT
GAGCCGAGAT CGAACCACTG CACTCCAGCC TAGGTGACAA GAGCGAAACT TTGCCGGCAT TTACACTCTC AAAAGATTTA
ACGCAATTAC AATCAAAAAA CACTTGTCAT ATATAACACT TTTTCACATG GAAATAAATT GGTGGTTTAA GGTPTACAAT
TCCTTTGAAT AAAATTTCAG TTATTAGTTA CAAAATGCTA AGACAGATTG AGGTCTCAAA GAAAGANCTT TGAGGAAAAAT
TTATGGTTTT AAAGGGACTT TCACCAAATA TGA

SEO ID NO:653: (Length of Sequence = 224 Nucleotides)

AAGACAGGA NIACTITATI CAAAACCCAT CACAGAAATG GACAGCITGG GICTGIAACA AAGCATTCAT GITTIAGNGC ATAGGICAGI AATTGIATAT GAGAGCATAC ACTGCTACAT ACAAATTAAC TGNTCAGACC ACAACTTTC AATGITTAAA ACAGNATAAG CITCCCTGIA AAAGCAGCAC CITTIGIGAC GNTTIAACTT TAGTATTCCT CTCC

SEO ID NO:654: (Length of Sequence = 353 Nucleotides)

GICAACICIA TITICCATAT GAATIATIAG ATTIGGIGCT GICTIGIGAA GIAACITGAT ACGATAGATG TGIAGIATGA
ATTITGICCA CAIGGITGIG CCCTTGGCAG AACIGCACGT ACCIGAAATG GITCCCIAAT TITITITCTAG TATIACIATC
CAACACTTCC TCTCATAATC ACIAGIGIAT TGIATAATTG TTAAGIGICC TTIATTCATA TATITAAATT AAAAGAATAC
TCTGGIAGGA TTTTGAGGGC CAATAGIGIA TTTCCACIGI TIGAGGIATT AGGAGGGCIA TTTACTGATA CCTGIAGIGC
CTTCCCATTC TGGITTATCA TGCACCTCTA AAT

SEO ID NO:655: (Length of Sequence = 365 Nucleotides)

GAAACINACT TCACATITCT CCAGGGAGGG ATGCITTGGA AAAACIGCTC AGTGAGATGA AGCACAGATC TGCITTINAT CCCITTIGIA CCITTITIAAA GACATAAGGI ATGITTIGAC ACTGGAGTAT ATATGAGGGI TGCTAACGIT TAGGITGAAA GAGGTGCTGT TGTCCACAGC TTATTTATTT NCCACCCATT TTTGTCTCCT GGTCTCATCC AGTTACATTT CCTGGGATAT GTTTTTGGAG GTTGCTCAGA TCACGGCACT AGAGTCCCTT TGGGTTTCTC CTCCCTCCTC TGTCTATTTG GCCTCGCCCT TGACAAACAT TCCCCACATT CACAACCAGG CCTTTGGCTA AATGT

SEO ID NO:656: (Length of Sequence = 372 Nucleotides)

GICATGAGIC TGAGACCAGC CTGGCCATCA TGGCAAAACC CTATCTCTAC TAAAAATACA AAAGITAGCT GGGTGTGGTG GCGTGCACCT GCATTCTCAG CGACTTGGGA TUCTGAGGCA UAAGAATCGC TTAAACCTGG UAGGCAGAGG TTGCAGTGAG COGAGATCEC TOCACTECAC TOCAGTCTEG GTGACAGAGT GAGACCTTET CTCCAAAATA AAAGAAATTT ACTECAAAGG GATGTTGCAT TTCAGGTGAA TGTATGTAGC CTTTCAGAGG CCGGGCTATT TATTAGATGT ATTTTATAAC TGAGGGTTCT AGGTAAACAC AAGCCAAACA GATCCACCAG AAGCCTAGAG CTGTGGACTC TT

SEO ID NO:657: (Length of Sequence = 334 Nucleotides)

GGITGIGGAA AAAAAAACCI CCAGATAAGA TIGIGCCIGC TICATITICI TGIGAGGCIG CCCAGACAAA GGITACITIC
CTGATIGGGG ATTCIATGIC ACCIGATICA GATACIGAGC TICGAAGICA GGCAGIGGIG GATCAGATTA CCAGACATCA
CACCAAACCA TIGAAGGAAG AAAGAGGGC TATIGATCAG CATCAAGAAA CTAAACAAAC AACCAAGGAC CAATCIGGAG
AGTCIGATAC ACAGAACATG GITTCIGAAG AGCCCIGIGA ACITCCCIGI TGGAATCATT CAGACCCAGA AAGCATGAGC
TTATICGACG GATA

SEO ID NO:658: (Length of Sequence = 286 Nucleotides)

ACAAACCAAC TGCATTTCTT TCTGGATATT GTTGAACAAA AATAGCATTC AGTTTACCCN CTAGTGCTAA CAGAAGNENC TCAAGCTGTT CCCCCATCAT GGGRGCAGCC CTTAACAGAG GGCTGCACAA ATCTGCAGTG CTGCTCTGGG GAAGGCTNCA AAGCACTTTT TTCCCAAGAA GGGATGCTGT TCANGTCTGT TAGGGGAAGC ACACCGNCTN TGCCTGGGCA CAGATGAACT GCCCTTCAAG GCAATCATCA TCTTTTTTCT AATAGGGAAG GTTTGG

SEO ID NO:659: (Length of Sequence = 321 Nucleotides)

GETCITIATA TGITICCGAG ACAGGACIGA AACICCCIGC CITCAAGICA TITICCIAAG TAGCIGGGAC TATAGGCIGI
TICITITITI AAAGGAAGGA TITIAIGITI ATCATGAAGA
GAGACACIAT TAAAAAAAAGG CAAATCAGAA ATTIGGAGAA CATTITIA ATACIGATAA TAAGACAGAA TIGIACCCIG
TAACCATAAA TAIGIAGAAT TICIACCATA TCAATAAGGI CAGITICT GIIGCICCAC ATCCICIIGC ACGGITGGGI
A

SEO ID NO:660: (Length of Sequence = 302 Nucleotides)

TITGITAAGG ACATAATGIT TITGACIGGG GATCATGITI GGCTGATGIA AATATTAATG CCAAAATAGG AGCTAGGATG
AAAGIAACAC TGIAATTAGI AGIAGAATTI ATITCATATI AAAATGIGIC ATGACGIAAT TITTATGGCT TGGCTCAAGC
AACAATTITC AGAGTGCACC CICATTGATG CTACTCACAG AGACGTGGAT GTGCTGTTAC TGCTTTCTAA CTCTGCCTAC
TACGTGGCCT ATTATGATGA TGAAGTTGAT AAAGTAAACC AGTATCAACG NCTAAGTCTA GG

SEO ID NO:661: (Length of Sequence = 249 Nucleotides)

AAAAAAAAA ACTOTOAAGG GTOTAACTTT ACCCATOATA AAATAATTTT GGTGCAAGGG TAGTGGCACA TITTATTTAT
TTGGGATACC ATGCAGATGC AACCTAGCCC CATTCTTTAT GCAAAGTAGA TTATCCGTGC ATTTCTTCTG CATTGMTAGT
GAATCCTTAC TGGGGNCAAC TCATTCCATT TGGCAACAAT CTTTAATGGN CAGGCAATAT ATAACATTGC TGAAGTCTCT
TAGCACTAA

SEO ID NO:662: (Length of Sequence = 340 Nucleotides)

TTTTTTTTTE GCAGCCITGI AAGGAGAACT TCACCATTIC CCAGCACATC CCIATGIGIG CGCCTATTIT AATGCACCIC
TCIGAAACAG AGACCITTTT GTTCACAACC ATAACTAAAG CIGGAAAGIC AGICTICAGG CAAGGCGAGG GAGGAAAACA
TCCCATTAGA ATTTTTCAG GAAAGACTTA TGGAAAAAAA TATCTCTCTC CCACCICCIT TTATCCCCAT GAGACACAGT
TTCCCACIGI AATCAGGGIA ATATGCATTT NTAAGINCIG ATATGIGATA CATTTATGIG ATGGCAAAGA TAAGICIGIC
TTGCATGCAG GGIACIAGAG

SEO ID NO:663: (Length of Sequence = 325 Nucleotides)

CACAACAATT CIATGAAATT AGCTGGGGAG ATACTGTCCT TATTTTCAC AGCTGAAGAA ACCAAAGCTT TGGGAAGTTT GTGACTTCTC TGAGATCACA GCTGGTGATA GAAGGAGCTG GGACACGCGC TTGGGTTGAC TGGCTTCTGG TTTTGGTTCT CTGGCTTCTA GTGCTGGAAG AAGCCCCCC TTTCCCTTCT CTTTCCTCAG TAGCATCTGA CTCTTTTCAT AAGCAAACAG CTGTATAAAAC AAAGCCCCCCA TTTTGGTCAA GCACAGGGTG AATGTGATAT TTGTTCCCAC AACCTTATTC TNCACTCAAC AGCCG

SEO ID NO:664: (Length of Sequence = 300 Nucleotides)

TIGCIGAGAG AGAIGATGIT TCATGGGIGA TGICICTGGA AGAGATTGGA TAGGACCCAA GCACAGAGCA AGAAATTGGC TTIAGGCAAG TCAGAITTGI CITATACTAG TTAGGAGTAA AGAGAAATGG ATGATACAGA TGCAGCTATG TTCGTAGGAG GGAAGTGGAG GGAATTTCTG TGIGATGGCT TTAGTAATGI AGGCAGCAAG GTCAACTACT GACAGTGAGA GGAGAAATTC GGGGAGGCTG GTCACAGTTI GAAGTAATAG GTCATGGGGA GGCAGATGIT TGTGGGTGGA

SEO ID NO:665: (Length of Sequence = 327 Nucleotides)

CAAATAAGAA CCCAGAGAGA GGGAGAGATT CACAGACAAT AGCTTAAAAA GTCTAGAAAT TATAGACCGA TTGAGGTCAG
CAAGAAACAA ATTATTCAAT ATATCCCCTG AGGGCTAGAG CCAGACTITC CCCTATGATT CCAAAATTAC TTCGCAGTTT
CATTAGGGTG AAAGGCAGTG CAGTCTCATG AGTTCAGAAA GTAAAGGTTG TTCCTTAAAA TTTAGATAGA CTTGACAACC
ACTTAGGATG GCATTTTGGC ATTCTGTCCC TGCTCATCAA AGAAGTTGCT CAAATTTGTG GGNTAGAGGA ATGAGGAGCA
AGAAGTA

SEO ID NO:666: (Length of Sequence = 319 Nucleotides)

ATTCCCAAGG AGAGGCTGAG ACAGAGAGGC TTTGAGCTGT TCCTCAGCCC CCTACCCTAA CTCCCTCCCT ACTGTTGATC
AGGCTGGTCT CTAACTCTCG ACCTCAGGTG ATATGTGTGC CTCAGCCTCC CAAAGTGCTG GGATTACAGG TGTGAGCCAC
CATGCCTGGC CTGGGTTTTA TCTTAAGGTC TTTGTGTTGC TGTTCCATCT GCATGAATAC ATTINCTTCA TTTACTTACG
TCTTAGCTTA AATGATACCT CCTCTTCTTT CCTACTGCCA TTATCTTCCC TTGTCACTCC ATACTCAGAT TTCATTGCA

SEO ID NO:667: (Length of Sequence = 288 Nucleotides)

GGIGGCAGGC TGCTTGCANT NCAACGCCAG GNGITTCCTG ATGGGTCAGG GTGGGGAGGC TGCACACCAC ACAAGGTCAC CCTACTCTAC CTTCTACCACA CCCTACCACA GCCCTGAGCT CACCACTCCC CCAGGGCATG GGACTCTTGA TAATTCCAAG TCCATGAAAC CCTACAATTA TTGCAGTGCG TATGANTCCT TCTATGAAAG TACTTCCCCT GAGTGTGCCA GCCCTCAGTT TGAAGGTCCC TTAAGTCCTC CCCCAATTAA CTATAATGGG GATATTTT

SEO ID NO:668: (Length of Sequence = 212 Nucleotides)

TONITICIMI TICITATCIA TCINCITCAC CATGIGICIT CGGGGCCTGG AACATAGIAG AIGCICAATA AATATIGATI GAATGAATGA AIGAATAAAT CINCITACAC CICICATGCI TCAAACAGGG AAAGGCTAGA TTATITAGAA GICITGICGG GGATAATAAT NAGCICAGIG GAAGCCCTCI AGIITCICACI CGAGIITTCIC CC

SEO ID NO:669: (Length of Sequence = 281 Nucleotides)

ATCITITCAA COCIATCAAT AAGATGITAT GAAAGATTGG TICTOTTGIT TACAAGTAGT ATAGAATCIT TITTGATCIT
TGACTCIGIG CIGCCTATCT CATCAATGIT GITGCTATTA ATATCTGICC TITTAACACTG GATGITGGGA TCTTAGTAAT
GITGCTGATA ATAGGATTIT CAGCAAAACT TCCATATCCC TIGAAGATAT GGIAGITTTAT ATTACTATAT CGATAACAGT
TTTGCCTGIG GAGATTTGAC TAGITTTAGG TGITTGGGAAG C

SEO ID NO:670: (Length of Sequence = 234 Nucleotides)

AATAAAGTTG GGATATTGA TIGITTICIT TICIGATCIT TATGCTGACT GCAGTATCAG ATACCATTIC ATTGTTAAA

AATCTTCCTT TITITITITTT TITITITTIG CATTTGCTC TITIGICATT GITTCAAAGT CAAGTTGATG GCCNCAAAAT

TCCAGAGGCT AAGCAATGCA GAAGTTTCAT CTACTGGCAG CTAGTTTTAT TICTTAAAAA TACATTAAAT TAGG

SEO ID NO:671: (Length of Sequence = 252 Nucleotides)

CCIGAAATGI AAATTGITTI TAATATATTI AAGAGCACAC AGAAGICITG ATTIATAAAA AAATAAATAT ATAACATGAC
AAATTIACIG ATGATCCIGG GGCICTGAGG TCAAACTCIT TAAATGATCA GIGAAAACAT AAAACATCCA TGATCTGITA
ACACACACAG GGGCATATTC CAGITGIAAA AAACAANITC CITGAAGGCT CAGNACGTAC AAAANICAGT NITTINIGGCA
GAAAGCACAT CC

SEO ID NO:672: (Length of Sequence = 366 Nucleotides)

CCATCCAACT ACTIACICAA TCCTCTTGAA ATCTGCCTTT TGTAATGTAA CTGATAGGCC AGCGTTTTCT TTCACTGTGG
GAAATAAAGG CTACTTGGTT GCTTTAGGGA GGGCAACAAT GTCAGCTGCA TAAGCAGCAA GAATATTATA TTTNATTACT
AGTCCACCCT TAATAAAGAG AGAAACCTTA GGAAATGGAA AGAGGTGTCT GTTTTATATT TCCTTTGCTT TTCAACCATT
GTTTAGACAC TCTCCCTTCT AGTGCTTGGA GAACCTTCAT GGAAACTCTG TTCAGGTTCT TGACTCTCAG CGACANATGT
GGAGGTCTTT GTGGTCTTAG CTCTCTAGGC CTGAGAATCA CATACA

SEO ID NO:673: (Length of Sequence = 349 Nucleotides)

CCTCCCATCT TGGCCTCCCA AAGTGTTAGG ATTACAGGCG TGAGCANCCA CACCCTGCCT GGTTGTGTAC TCTTTTAAAT
ACTAAGTTTT TAATGTTAAA TGCTGCTTTT AGATACACTG TAAAAATACA CCTATCAATG AGTTTTTTTA TTAAAAACAT
TGCAATTGTA CTAGACTTTA AATACTAAGC AATAATTCAG GCTTCAATGT TGGTTTATAG TTTTCTCATTT
AATACCTCTG TAAAATGAAG CAGTTACTTC CATTTTCCTG AGGTGAGATA AGTGCCCTGC ACAAATGTTA TAGGNCCAGT
AAGTGAGGAC TGGAGCTCTG GATCCTAAT

SEO ID NO:674: (Length of Sequence = 256 Nucleotides)

GCACTITIGG AGGCCGAGGC AGITGCNICA CCTGAGGITA GGAGTITIGAG ACCAGCCTGG CCAACAGGGT GAAACCNGIN TTCGTCTAAA AATACAAAAN TTAGCCGGGC GTGGTNGTGC ATGCCTGTAG TCCCAGGTAC TCAGGRGGCT GAGGCAGGAG AATCACTTGA ACCCGAGGTG GGGCAGGNGG AGGTTGCAGT AAGCCAAGAT CGCGCCATTG CACTCTAGCC TAGGTGACAG AGTGAGACTC CATCTC

SEO ID NO:675: (Length of Sequence = 292 Nucleotides)

GAAGTCATTI TAGACTCTCA ATTITAAATT AATTITGAAT CACTAATATT TICACAGTIT ATTAATATAT TITANITCCTA
TITAAATTIN AGATTATTIT TATTACCATG TACTGAATTI TITACATCCTG NIACCCTTTC CITCTCCATG TCAGTATCAT
GITCTCTAAT TATCTTGCCA AATTITGAAA CTACACACAA AAAGCATACT TGCATTATTIT ATAATANANI NGCATTCAGT
GGCTTTTTAA AAAANIGITT GATTCAAAAC TITAACATAC TGATAAGTAA GA

SEO ID NO:676: (Length of Sequence = 392 Nucleotides)

ATCAAAGATT GCAAACATT ATTTGATCC TEGACTACAG TETEGEGGATC ATTGCTATGT TEGCTTGCCT TINCTATCCA
AATCTGAACC CAAAGTGCAG CCTGGTGTAG CCATGCAGGA AGATATGTGG GATGCTGACT GGGATTTGCA TCAAAGCYTG
TTCAAGGGAT GGACAGGAAT AAAGGAAAAT NCAGGTCATA GATTGAGGC TATATTTGAN GTAAATACAG ACCTTCAAAA

CIGGITCCIT CIGGICIGAA ATTAGAGIAG ACICGITCIG AGIACTIGGC AAATGACTAT TIGATICICT GATICCCIGG NCICCATGCT CACCAGATGC ATAGCAGGGA TCICCCTAG NCACTCACAT CCAATITITCA GG

SEO ID NO:683: (Length of Sequence = 329 Nucleotides)

GATTITAAAT AGITAAAACA TITTITITAAA TCCATAAGTA ATTCTTACTC TACTCATTTA TACACACATA TACTCACATG
TACACAGACA TACCTACACA CACACITATA AATACATGTA TACACAGAAT ATAGTAAGGT CTITTATCCC TITTCAATGA
AATAAATATT GIATTCTATA TITACAATAA ATAATGTTGA AAAAGTGATT TIGGAGAAAG GITGAAATGA TIGAGTCTTA
AGTGTGCAA TGIATAATCT ACCCCTTTCT AAACATCGTG TITTAAGTAG TCATCTTACT TCAGAAATTA GAGGCTCAAT
GTGTTTAGG

SEO ID NO:684: (Length of Sequence = 281 Nucleotides)

AACATGGCTG ANTIGAGATT ACACTGCCAT GATACATTGN CTGACAGCAC TTCACATTTT CCCTGAGTTG GGGACAGAAA
TCACACTGCC CAAATACATT ATCTGATGGC TCCTCATGTT TCCCAAAAGT TAGGAAAGGA GGTTCTATAT ACATACATGC
ACAAGTGCAT ACACACACA ACACATACAC ACACACACAG TGCTAGATGA GATGTTGANT GNCATAAGGA AATGAAAGTN
CCATCTCTCT NITNCCTACC CCCTGCATCT GTCCCTTNAT A

SEO ID NO:685: (Length of Sequence = 324 Nucleotides)

ATTITIAATA ATTITAAACT AGCIACAAAA TGICAATCAC TICACAAACT GACAGAGGAG ACAGGAGGAA TITAATATTA CATGCIATAA TGATATTAT CTCACAGTIT ATATITCATT CATTITATATT ATTITITITAA AAGGITTCTI TATCAGCIAC TAAACATCTC AGCAATTIGG TGIGCATAGC TCTAGATTAA GCAACAAAGN ATTGTACTGA TAACAAACCA CAGGGAAAAT GGIGGITAGT AAGAGICAGC CTTATAAAAT TTACATCCAC ACTGITTICA CAGCAAGNIT GCTCTCTCCA AAACGGIGGN CATC

SEQ ID NO:686: (Length of Sequence = 380 Nucleotides)

CGAGGAGGAG GAGGAGAAAA TTCCCCCAGA TTCGGGCAGG CCCGCACCCC ACATTCCGTC CTGTTTTGAG AGGAGGAGGG
AAGAGAAATA AACGTGGCAG CGCATAGAAG GCCAGCAGGG AGACTGCTTT CCAGACACCT CCGGCCCACA CAGCCGTTCA
CCCCCCGTTT TTTCAGTCCT GGAAAAGGAA TTCGGGTCTG TTTTCCTTTT GGGCTCTGTG CAACTNCAGC TACAGTGGAA
AAAAGCAAAC TGCTCTTGAT CCCAGGCCCT GCCTAAGCCT CAGCAGAACT TNTAAGCCTA AACTTNAAGA GCCTCACCCG
GACGAGCAGG CATNCCTTAA CCTTAAAGCA ATCCAGTTTC ACGGCCTGGT TCAGTGGAAT

SEO ID NO:687: (Length of Sequence = 305 Nucleotides)

GACACTICCC CICITITATG GAAGCATAGT AAGATTITIC CITTATGGCG ATCATGATGG AGAAGTATAT GCTACAGGAG
GNGAGGITCA AATTGCAATG GAACCTCAGG CACTATATGA TGAAGTAAGA NCINTGCCAA TTGCAAAGCT GGATAGGACA
GITGCTGAGA AAGCTGTTAA AAAATATGTA GAAGATGAAA TGGCAAGGCT CCCTGATAGA TTGTCAGTAA CITTGGCCTGA
AGGAGATGAA TTATTGCCTA ATGAGATTAG GCCTGCTGGA ACCCCTATTG GTGCGTTAAG AATTG

SEO ID NO:688: (Length of Sequence = 390 Mucleotides)

GAAGTCATAA GGCCTAAATA TTAATCCAGT CTGTGACAAC GACAAGGTGA ATACAAGCCA GTCTCTACTT CTCTGGGCCT
CTGTTTTCTG CACTTTATAT AAAGATTGGG CAAGATGGTC TAACTTAAAT TTTATGATTC ACTAACTTGA TTTTGTATGG
GGCAGATTTT NCTTCGATGA AATATTAACA AATAAGNCAC TCAAATAAAT CAGCNATUGG GTGCAGATGA GGACTACCGT
TTCTACAGCA AAATATGGGT GAACTCAGTA AGTGTAGGRA CACAGAAGTT AATGCTGACC TCTTGCATAG CATGTATGGG
ATATTAAATC ATTTCCTGCC TTCCATTTCA GGGGTGAGGG AGGAACAGCT GTTCCTGAAC TCT.TTAAGG

SEO ID NO:689: (Length of Sequence = 315 Nucleotides)

GATTIAAGIG TIAGCATTIC TAAACITGAG ACICIAACAG TAAAAATAAA GIAATCIGAA ACCIGITICC ATGGGIAAAA
CACICIGCCI GGIATTCIIG TACACAAAAT TIACIAAATA TGIGAATATC ATAAAATGAA AATATCACIC CCTICAATTI
CITIGGCCII CACAAATTCA ATGIGACIAT GATCCITTIC AATAATACIT TCAATGACAT TGIGCITCII TAGAAAAAATC
ACITAAGIIG TAGCATACAA TAGITAACAT TAGICCTITI ATTGCTATGG TATATGCTAA TITITITTAAA AGGGG

SEO ID NO:690: (Length of Sequence = 291 Nucleotides)

TTAAAATACT CCATATATT NAGAAGCAAT TGAAAATGCA TCCATGIATG INATTIGAGC GITACIAGAA ATTIATTIAT ACAAATCCAT ATTAATGIGC TAATAAGIGA CAAATATATA TATAGICATG CACTGAATAA TGATGITTIG GICAACGATG AACIGCACAT ACAATGGIGG CCCCATAAGA TTAAAATAGA NCCAAAATTT CCTATGGCCT AGTGATGCIG TAGCCATCAT AATGIGGIAG TGCAACCCAT TACCTTTTCT ATGITTAAAT ATACAAATAC T

SEO ID NO:691: (Length of Sequence = 451 Nucleotides)

TTGAGCATCC GGAATATGGA GAAGTAATTC AGCTACAGGG TGACCAACGC AAGAACATAT GCCAGINCCT CGTAGAGATT
GGACTGGCTA AGGACGATCA GCTGAAGGTT CATGGGTTTT AAGTGCTTGT GGCTCACTGA AGCTTAAGTG AGGATTTCCT
TGCAATGAGT AGAATTTCCC TTCTCTCCCT TGTCACAGGT TTAAAAACCT CACAGCTTGT ATAATGTAAC CATTTGGGGT
CCGCTTTTAA CTTGGACTAG TGTAACTCCT TCATGCAATA AACTGAAAAG AGCCATGCTG TCTAGTCTTG AAGTCCCTCA
TTTAAACAGA GGTCAAGCAA TAGGCGCCTG GCAGTGTCAA GCCTGAAACC AAGCAATACC GTCATGTTTC AGCCAAGCCC
AGAGNCCTAA GGTTTACAAA CAAACTATGG NCCGGAACCT CCTCAAGTTC T

SEO ID NO:692: (Length of Sequence = 363 Nucleotides)

GATTITINGA TIATIGATAT TAGAAATGIT TAAAATTAAG ATATTAACAT TICATGAAGC TGAGTGGTGA GCACACCAGT
TITATATICI CICIATATAA CITIGGIAT ATITGAAATG TITICICATA AAAAGIATIT AAGCAAGITI AGGAAAGAAT
ATIGATAAAT GAAATCIAGA GACCATCAAA AGCCAATTIC ACCATCACAA AGTATAATTG TGITICAAAT ATAATTGAAA
TIGGIGGACT GITGCATATT CICITITITG TIGTIGTTAA TGAAAGCATC TTAAACAGIT GCCTTTCAAA GCTGTTATCT
TIGATANTAA CATACATTAA CCTAACATTG TGGACTTCTG TTA

SEO ID NO:693: (Length of Sequence = 269 Nucleotides)

TTAAGGGTCC CAAGACTGCT CTAACAACAA CACCCATTTC CATAAATATG GMCAATAAA CACTTATTCA TTCTTTATAA
TTAGGACTCTA TTGTTAGGAAT TGTTTTAGGT TTATAGAAAA ATTGAGCAGA TAGTACAGAA GATTGCCATA TACCCCTCAC
CCACAGAATT TCACAATTTA CCCTGCGATT AAAGTCTAAT GTTAATATGA TATATTTAGT ACAAGTAGTG GGATTATATT
GATACATTAT TATTAATTAA AATCCNCAA

SEO ID NO:694: (Length of Sequence = 330 Nucleotides)

GECATAGICA CITCCAGACA TOGITECCIC TOCATGIGGA GIAGGICAAA GICTCCGICC TCCCIGGCCA GGIGGAAGCT
CCAGAGGGAC ATGITICAGC TIAGIACAAG GIGGCIGACA CIACTCCTCT GIAGGAAGAG GCIGGCIGGA GGIGAGGGCG
CCCCACTCAG CCTGIACCCA TCAAGAAGIA TICAGAAAGG ATGICTCTGG CATCCACAAG ACTACTGGGC GAACCACACT
GCAAAAAATGA AAACTAGCGT ACACAATTIA AATTGGTCTT AAACAAGCAA ATAATCCAGC CATTGGTGAC TCTGGGAATC
TAGAGTGCAA

SEQ ID NO:695: (Length of Sequence = 344 Nucleotides)

CACTGIGACG GATGAGTGGA TATTTCITTG TACCCIGAGC TCTTTCATCC TACCTTGGTG GTCAAATGIG AGAGCAAGTG
CTTTGGGGCT CAGAGGGCAT CACTCCAAGC ATTCTGCATG GAGTCTGITG TGGTGAATGI NCTTGCTGGC ATCTTGATCA
AGGACTITGT CATCATTAGC CATCAAATGC TTGTTGGTCC TTCTCAACCC TGTAATGITG ATACTTAAAA AACTGGAAAC
ATCCTGACAG AAACAGTCGA GAAAGTGGTT GTGTGAGCTC TGGTTATCGC ATTACAGTTA AAGTTGGCAG ATAGGTTCTG
TATTCAGTGC CCCATCAAAA ACAG

SEO ID NO:696: (Length of Sequence = 324 Nucleotides)

CTTGAACGTG GCAGATAAGC ATTTTGATAT GCTGCTGGAT TCAGTTTGCC AGTATTTTAT TGAGCATTTC ACATCGATGT TCATCAGGGA TATTGGCCTG AAATTTTGTT GTTGTTGTTG TATCTCTGCT AGGTTTTGGT ATCAGGATGA TGCTGGCCTC ATATAATGAC TTAGGGAGGA GTCCCTCTTT TNCTATTGTT TGGAATAGTT TCAGAAGGAA TGTTACCAGC TCTTCTTTGT ACCTCTGGTA GAATTTGGCT GTGAATCCAA TAGACACAAT AAAAAAATGA TAAATGGGAT ATCACCACTG ACCTCAGAGG AAAT

SEO ID NO:697: (Length of Sequence = 341 Nucleotides)

AATTAATCAA TCAGCCATTT TGGTGGCCGA AATTTATAAG GCAAGTAATA CTTTTAGTTT CTTTGATAGA CACCATGATC AGAAACATAG TCTCTTTCTT AAAGGGAAAA TAGGAAGTCI TCTGAGTCAT AACAGATGCA TGCATAAATT TCTCTGAGTC TTCATAAGAA ACACAAGCAA GATTTCACAG AGGCAGTGGA ATTTGAACTG AGTCTTGAGA AATAAGCAAT ATCTGAACAT GTAGAATGCA AAATAAAGGA TAAGCAAGTG CTAATGCCCA GAGGGGTAAT ACATATTAAA TANCCANTAA CCAATTGCTA CTTGTGTTTC TTACACTAGA A

SEO ID NO:698: (Length of Sequence = 317 Nucleotides)

GCAAACCAGG AGAAGCAGAA GAGCAGGGTA AACCCTGGGT ATAATTTGTC TAGACCCCCA TGTCTCCTTT AGTCTGAGTT
CTGACATAAT TAACTGTCTA TGAGGATGTAC TGGGCCTTTC CTCATTGCTT TTTGATGCCA CCTCACTAAT GTAAACAAAA
CATTCATTTT TTCATCCTAT TTTTTCTTAC AGCTGCTTAG CACAGTCCTT ATGAAAAAAAT GAAGCCTTGA AAATGGTATA
TCCTCTCGAC AAAGCTAAGC CTGACAAGTT GGCTGCATTA CCTAGGAATT AGAGAAGAGC AAGGGCAGAT GGTGGGG

SEO ID NO:699: (Length of Sequence = 385 Nucleotides)

ACCAGGAGAT GGAGGIGCIC TAGACIGIGA TGCIGGGAAA GGATIGIGGG CTAGAAAAAG GGCICCCTAG GGCCGGCATA
TGGGCCACIG GGIGGAAGAG GGGCICIGAG ACCCTCACCC TGGAGCAGGT CATCACCCAC ACCGAAGAAT GAAGCGIGAA
TTCGGICACG CTTAAAATGI TGAATTGITG GCAAAAGCCC AAGITAATGA AATAGCATGG AAAATGGATG TGATGAGATT
TTTGAATTGT AATTAGATTA ACATTGICAC TAGTTATCAG TCTGATATAT CTTATAAATC AAACGTTGGG TTGATTTATC
TTTTTATCACT TCTAGGGACT TACTCCTAAC AGTAACTCAC AAACCCAGCC CCAAATCAGA GGCTT

SEQ ID NO:700: (Length of Sequence = 315 Nucleotides)

ATCAGTIGGA TITIGCAGAGG ATTGGAAGGC AGCACCAGGC AGGCTCAGAC TCACTGCTGA CAGGAATGGC TITICTITAGG
ATGAAAGAGT TGTTTTTTGA GGACAGCATT GATGATGCCA AGTACTGTGG GCGCCTCTAT GGCTTAGGCA CAGGAGTGGC
CCANAAGCAG AATGAGGATG TGGACTCTNC CCANGAGAAG ATGAGCATCC TGGCGNTTAT CANCAACATG CAGCAGTGAT
GGCGCCAGGC TCTTCAGGNT GGGCCTGATC CCNCAGTGGT GCTTACTNTG CTGACTGTGT ACTTATCTTC CCCAA

SEO ID NO:701: (Length of Sequence = 387 Nucleotides)

GGCAGGAGAA TCGCTTGGGC CCGGGAGGCA GAGGTTGCAG TGAGCCAAGA TCGTGCCACT GCACTCCATC CTGGGCAACA
GACCLAGAGT CTGTCTCAAA AATAAAAAAA AAAAAAAAAA GGTAGGTCTT TTCATCATTG TGTTTTCTG CATGTAGCAC

ATACCTAGAA ATTITIGATAA ATACTIGITA AACAACCAAA AATAAAACAT CCACAGCAAG GANICGACTA TAAGGCGITG

SEQ ID NO:708: (Length of Sequence = 325 Nucleotides)

GGGCTCATAC ACAGTITTAT TICCIGITGA TITTACAGAC ACTCCATCCT GCAAGCCCAT TCCCTTGGAA AACCCAGAAA

GAGTGGGCAC AGTGCTCCCT AGAGGAATAG AGGGGACAAG ATGGCTGCCA GGGAGAGGGC AGTTGAGGCA CTTAGGGATT

TACTCCGGCC CTGATGGAAG ATCTGGTGCC CAGGGTAGGG GGAGAGGGCC TGGGCTGGC TGGACCCTCC TAGGTATTTC

CCAGAAGCCC CTTCAGGAAC TGTCACCTGG ACTCCAGCAC CACCCCTCGT CATGTTGTCA CTTCCTGTGG TGGCGGGAGC

GCAGG

SEO ID NO:709: (Length of Sequence = 264 Nucleotides)
GGGCCCGGTT GCATGAGGCA CITTGTCAAA ATGAGCAGAT ACGTATGAGC ACTGAACTCT TGAGTGAATC AACCAGAACT
AAGACCCAGA TCCACGCACT CAGGAACTTG CTCTGAATTT CAGTTTGACA ACAGAGAAGT AGAATATTTC TAATTAGCTA
ATATATATAC ACATTTTTTA ATCATCCAAA ATTACAGGCA AATCACTTAA GGTCCCCAGC ACTTTACGNT GNAAGGTCAG
AGAGANCCCC ACAAAAAAGG TGTT

SEO ID NO:710: (Length of Sequence = 366 Nucleotides)

ATTITIATIA TATACATATC AGTACTCACA ATACGITGCT TATTIAAGAT GGCTGITTAT AAGTATAAG CAGTITGAGC

AACACTGATT GIGCATTATT GIACITCAGA TGAAAAAATCC TTACATGCGG AATCAATGIC TTITAAAATT TCAGATAAAG

AATTITUCATT TGAGGAGACA TACAATTGTA AGTGCTCATT TITTGTCAAT TTTAAGACAC CATTATGTGT AAGANGGATT

AATTITUCCA TAAAATTACA AACACCTCC ATGTCTTGAC ATTCACATGG AAAGGGCAGC ATAACCATTT AATCATCCAA

ATGCATATCA GAGCAAACTC CTAGGGCCTT TAGGTGTGAG GGTGGA

SEO ID NO:711: (Length of Sequence = 216 Mucleotides)

GAAAAGCAGA AAAAAGTGGG GAAGATTTTC TATCTTGAAC TTGTGAGCTG GAGAATTACC ATTAGTAGCC CACTAATAGG

TTATGGCCGA TGAGTCCCTT CATAACACAC TGAGAGCCAC TTTTGACACT CCCAGAAAAG GCAGGTTAAC AAAACCCCTT

GATGGAAGGT TAGACCCTCA TTGCCCAGTG TACCCAAGCC TCTTTGAACC TTGCCT

SEO ID NO:712: (Length of Sequence = 276 Nucleotides)

ATTITITIC CATAGCACGI ATCACTCICI CATGIGITAC CIGCIACACI AGAATTATGA CCCCIAAGAG GGAAGAGACT

ATGICAGIAT CATGATICI NATIAACACC ATTATITAGA ACCATGCITG GCITAAAGIA GIAGCIGCIC AGTAAATATT

TATCIATGIG TGAATTITTA AGINCITCCI TIATATIGAN TTAAAATTAG TCTCITGIGI GCAGCAGICT GGGITTGICT

TATGITGAAA TACITATGIN GACTICIACA TACATT

SEO ID NO:713: (Length of Sequence = 354 Nucleotides)

AAACTITACA ACCIGCACAT TIGITATGCA TACTAAATGG TGIGITAAAA TTAGGGITTC TTIGCCICIC TACACTACAC

TAATCIGCCT AAAGGIGGIT GITTCATATT TATAATGCTA AITATCATAC CTACCTACTT TAAATTITAG GTAGAAAATT

ATCIGATITA AATACAAACA TATTITITCIC ACATTGAGTA ATATGCATAA TGIAGITCCA AATGTATTIC ATTACTATAG

TCACAATATC CAACTAAAAA TTACGCTATC TAGAATTGTA CCANCCAAAA TCICGTATTG GCAGATCITG ACAGGCTGGA

CCICCAAGNA TCIGGCTIGG AATTITAAAC CCAT

SEO ID NO:714: (Length of Sequence = 349 Nucleotices)

CAGTAATTCT CTTACATCCT TCCCAAAAAT CAGTGTCTAG GGACTAGTTG ATCTGGATGA GTTATACATG ATATTTGACT
TTNCATAAGT AGTGGAAGGT TTCACTAAGT AAAGATCTGA GTTTCTTGGT ATCTGACGTT TGTATACAGA TGGTGTCCAT
TTGCTCAACC AGACAGGAGT TAACTTGTAT TAGAATTGTT TTTNCTAAAG TNATGTTACC TGAGAAAATTA AGGACTGCAC
CTGGTTTAAT GTTGCTTCAC TTATCCCACC CTACAGAGAC CAGCAAGGTT CTGCCAGGCC TCGAGCATCC AAGCATGATT
TTCCTGTGGAC AAAATCTAAA AATCCAACC

SEO ID NO:715: (Length of Sequence = 302 Nucleotides)

ATATTIGAAA AGATCITCAC CAAAGATATA TOGATAGTAA GTAAATATAT GAAAGGITTI CACIGITAAT GATTAAAGGA
AATGCAATCI TIGTACATGAA TIGTITATAAC AGCATCATIC ATAAGAGCCA AAAGGTAGAA ACAATCCAAA TIGTICATCAA
CIGATGAATGA ANTACACAAA ACATAGTATT ATCTATATAA TIGGAATATTA CITIGGCCATA AAAAGAAATG AACTIGGGCCA
GGCGCAATGA CITTACGCCTIG TAATCCCAGC ACTITIGGGAG GCTNAGGTIGG GCGGACTIGCT TI

SEO ID NO:716: (Length of Sequence = 314 Nucleotides)

GIATTITIAG TAGAGACGGG GITTCACCGT GITAGCCAGG ATGGTCTIGA TCTCCCTACC TCGTGATCCG CCCACCTCGG CCTCCCAAAG TGCTGGGATT ACAGGCGTGA GCACCTGCGC CCCACCCCAT TTTGGTGTGA TCTCAGCTCA CTGCAACCTA CCCCTCCCAA GITCAAGTGA TTCTCCTACC TCAGCCTNIT GAGTAGCTGG GATTACAGGG GTCTGCCACC ACGNCTGGCT GATTTTCCTA TTTTNAGTTG ACACTGCATT TCACCAGGNT GGCCAGGCTG GTCTCGATCT CCCTGACAAG AGGG

SEO ID NO:717: (Length of Sequence = 279 Nucleotides)

ATAAAAATGC TACAGATTIT TGIATGITGA TITTTTATCA TGCAATTICA CIGAATTIGI TITTCAGITA TAACAGITIT
CITATGGAGI CITTGGITTI TACCAAATAC AAGATCATAT CATCIGCAAT CAAGGATAAT TIGACTICCT CCITTCCAAT
TTAGATGICC AITATTITTIC CICTTGICIG ATTGCTCTAG CIAGGATTIC CAGIACTATG TIGAATAACA ATGGTGAAAG
TGGGTATCCT TGICATATTC CAGGGTCTTG GAGGAAAGG

SEO ID NO:718: (Length of Sequence = 161 Nucleotides)

AAGAAAAAA CATAAATAAT ATTAGAAATG GAAAAGTTAT AAATCAACTA CAGCAAGGNT TTAAAACTAT TATGAAACAA

ACCAAGTAGA AAGTAGATCT GCCAAACAAA AAAGGAAAGA NACTGTTTCT TTCATAAATA ANTGACAATG GGGGAAAAAG

SEO ID NO:719: (Length of Sequence = 220 Nucleotides)

GACAGAATTT TITTTTTTT TITTTTTGA GACAGAATCT CGCTCTGTCA CCCAGGCTAG AGTGCAATGG CGCAATCTCG
GCTCACTTCA ACCTCTGCTG TCACAAATAA ACATCAGTAA GAGCCAGCAG TTGCTCTAGG ATCTCAGTCA GCAAGCTTGG
GGGCTGTCAG GAAACCAGCA GTCACCTGTT TCTCCCTCTC CCAGCCCAGG GCTGACCCCT

SEO ID NO:720: (Length of Sequence = 347 Nucleotides)

AGAAATGAAA GCTACATTAA CGAAAAAGGA ACTTAGGAAT GAGGTCATTA AATATAACTA ACTACATTTT AAATACGGAT ATCATATATT TCCTGATTAG TATCAGGTAA ATATCTAGAC TCCTATCCTG AATTCCGGTC TCAGATAAAA AGGTCAGAGA CAATTACAAG GAAGATGCTT CATATTATCA GGTCAGTATA TACCTAATTA TGTGCACTGG AGAGTAATTT ATTCTTCATT, ATCATTTTGTA AACATTGTT TTTCACATTT TTGTAGTTGT CCATAATGTA AGCTTGTGGG TTTGATTATT GTTTTCCACA CTGGATCCAG CTGGTTTAAA CCTATTT

SEO ID NO:721: (Length of Sequence = 313 Nucleotides)

AAAAGATTTG AACAGATAAT TCATCCAAAA AAAATATGGG TGGGAAAAAA AGCACATGAA AAGATGCTCA ATATCATTAG ACATTAAGAA AATATAAATT AAAACCACAA TGCAATATCA CCTCGTATCT ATTAGAATGT CTAATATTAG CAAGACTGGC CATATAGAGT GTTGGTGAGG ATGTGAACAA CTGAAACTCA TACACAGTGC AGGTGGAAAT GTAAATGATA CAATTTTTTT GGAAAAGAGT TGGCTGTTTC TTCAAAAGTT AAACATTACA TCTGCCATAT GNTCCAGACA TTCCACTCCT AAG

SEO ID NO:722: (Length of Sequence = 266 Nucleotides)

SEO ID NO:723: (Length of Sequence = 370 Nucleotides)

ATTATTCATG AAATAATCCA TGTAACATCA CTTAGCACTG AGAGTTAACA AAGGCAAATG TTACCTGAAT AGGAGGAAAC
AGAGGAAGAA CAACGAGGTC TCTTTTATCT ATGCTAAGCT TTGTCTGAAT AGGAGGAAAA TGTGTGGCCT GTTGGTGAAT
TTATTGCTTT GTGGTAGTAA ATAACCCTGT TGGAAGCACC GCTTATCTTC AGACCACAGC GCATACTTCT TACTGGAAAA
TATAATGCAG GTGCCAACAC CCAAAGGGCA TGACCAGGGG TTCCCCTTCC

SEO ID NO:724: (Length of Sequence = 478 Nucleotides)

GEACACAACT GAAGTGTGGA AGAAATGAAA GGGCGAAGGT GTGTTTTGAG AAGGCTCTGG AAGAAAAGCC CAACAACCCA
GAATTCTCCT CTGGACTGGC AATTGCGATG TACCATCTGG ATAATCACCC AGAGAACAG TTCTCTACTG ATGTTTTGAA
GCAGGCCATT GAGCTGAGTC CTGATAACCA ATACGTCAAG GTTCTCTTGG GCCTGAAACT GCAGAAGATG AATAAAGAAG
CTGAAGGAGA GCAGTTTGTT GAAGAAGCCT TGGAAAAGTC TCCTTGCCAA ACAGATGTCC TCCGCAGTGC AGCCAAATTT
TACAGGAAGAA AAGGTGACCT AGACAAAGCT ATTGAACTGT TTCAACGGGG TGTTGGGAAT CCACACCAAA CCAATGGCTA
CCTCTATCAC CAGATTGGGG TGCTGCTACA AGGCAAAAGT AAGGCCAAAT GCAGANTACA GGGGGATCTG AAGCTAGT

SEO ID NO:725: (Length of Sequence = 356 Nucleotides)

GACAGAGGAG AATAAATGGA ATAACTTAGT TITGIGAAAG ACTCACAGTA TCACTTGGIT TCTGGACACG GTTCGAGACC
TGGCTGTGGC TTGCTGTGGC CTTGAGGACC ATCCCACAGC AGCAATGCTG TTGGACCCTT TGGCTGGGAC CTTCAGGACC
CCCTGCAACA GCACTGTGIN CCTAACCTGC TGGCATGATG CCCCTTTNTT GACAGGGCTG CATACAAGGC CAGCGACAAG
TGGCAGGCAG TGACGCCAGC CTGGATTTGC TGAGGGCACA CGCCATGCTT CCTGCAGTGC CAGTGCTCTT CTNGGTCCAC
TTTGCAGCAA GGATAGATGT GGTTCTAGAT CCAAGA

SEO ID NO:726: (Length of Sequence = 387 Nucleotides)

GTGGTAGAGT AAATCCTATT ATATCGAGAT ATTGGTCAGG CAAGAATTIT NCITITAAAA TAATTTATTG TAAATGAACC ATAAAATTIT NACCTTTGTG CCATCTTCTA GGCTATAAAA TAGTCTTATA AAGAATCAGA TTGTTAAGAG TATATGAAAT GTGGATATGG ATGTGGAAGA TCCATAACGA GGATGATGAA AGCACATTAA GAAGCTTTCT GATGGGTACA AAAAATAGAA TGAAGAAGAT CTAGTATTTG AGAGCACAAC AGGGTGACTA TAGTCAACAA TAATTTATTG TGCATTTTCA CATAACTAAA AAGTATAATT GGGATTGTAA CAGAAAGGAT AACTGCTTTG AGGTGATGGG ATACCCCATT TTACCCC

CCTTLAAGC AGGGATCCC CTGGTCCCCA CCCCCAACTT TATATTCATT AGGCCTGAGG TGGGGCCTGG GAATCTGGAT
TTATAAATTG CTCCCCTATG ATTCCAATGC CAGTGGGTTT TAGACCACAT TTTGAGAAAC AGTGCTGTAA ACTGTTTTCC
ATTTGCAGTG AAGGAAAATG TAGGGTTTGT GTCGTGAAAC TATGCAGAGA AATTGAATAG TATTTNAGTC TAATCTTGCT
TTTAAATAAC ACGGAAATTT TGAAAGTCGG CTTTAGGGAG TTCCAGAACC TGTCCATGAA CAGCAACAAG AAAGATCCCN
GTGTGAAAAT GAACACTGGT TGGTAAAA

SEO ID NO:728: (Length of Sequence = 305 Nucleotides)

TGITTIATTA TAATCITATA CAGTCIACAT AAATTIGAAC TIGIATTIAT TIGGGITCAG TIATAACATA GCATAATAAA

AATCAAAGCA CIGGICCICT GAAATAAAGC AGGCAATCAC CATICAATAA ACACCITGA TITATTITIGI ATAAAAGGGT

TAAGTITACA ACTAAACITT TATAAAANGT TIAGCATGAA TAAGTACATC ATTACACTTT TGAATGCAGA AATAGACATC

TCIGCCACTA TACAAGAAAA CICIAATTAA AGAGTICACA AGGTITCACT CAAATAGATA TATTT

SEO ID NO:729: (Length of Sequence = 383 Nucleotides)

CAGACATTI ATTITICIAT TITICCATGAA GAAGGAGAG GACAATTITA GATICACCAG TGIGCAGGAC AAATICITAC
TTAACCTATA GAGGAGCAAA CTITCITCAA ACACATTACC AATACAATTG TAATACTAAG AATCAATACC ATAGITCICG
ATGIACCATG ACTACAAATT GICACAGTAG ATTITIGGATG ACTITACCAT AGCCACACTI AATGAATTAT TATINATATI
NCIATTIGIA CTITAATAAA ACTATATTIT AAACTITAAA ATTGICATTI AAATTACTAA AGAAAATGAG TAGITCCCAT
AATGAATCCA TAATGITANG AATTGCTTT AGCAAATGAG GACTATATTC ACCTANGCTT TIG

SEO ID NO:730: (Length of Sequence = 311 Nucleotides)

CTCTTTATT CCTTAACTG CTTAACAAA GAAAGAGTCT CCAAAGTTTA AAAAACCTTT GAAAAATATA CAGCTTGATA
TTATTTACAT AAAATATGAN TOCAGGTTCC AATATCAAAC AAACATTGCT ATGTCAGAAA CACAGTGGAA GGCAGGAACG
TAACTCACTG CCTTTTAGAT GCAAAGACTA ATAGACACGT TCTCCNATCT CGACTATCTT NGTTACCTGT TATCCTCANA
ACATAAATTA TTANGGCACC TENGAGGTTG GATGACTACC GAAAATGGNC TTCATACCTT CTGTATGATT A

SEO ID NO:731: (Length of Sequence = 349 Nucleotides)

AGGGALATGE ACAGAATTET ACTAAAATAA CAGCAAAATA AGAGAGCATG AATTACATAT CAAATTATTT AAAGCAAATA
ATTTALCAAA TTTETGGAAC AGACAGAAG CAGATGAGTE TACCAAGAAG GATAATAAAC AATGACACCA GAGAAAAAACC
ACAACTGAA AACTTAAGGAA AACTGCCTAA GAGGTGTGAG CCAGAGCTCC CAGGAGCCCT ACAGTGCTCC AAGCTCAGAA
CTGGCAAGTA TCAAAGTCAA GAATGCTATG GGGTAGCTAG GCCTCTTGAC TTTCTCTTCT CTCTCCATTC ATAGACAAGA
AAGCALATCT ACCTTTAGGT GGCCTAGAA

SEO D NO:732: (Length of Sequence = 370 Nucleotides)

AAATTETETC CTCTAGCCTA GAAGCAATCA AACTCCAACT GGTGCTGCTG ACTGANCTAC GCATGGATAC GCCATTCTTC
TGAGGCCCT TAGACCAACC CCAGGAGGAG CCCTGACTTC TGTTCCCCAT TINATGCCCC TTTTCAAGCA GGAAGTAGCC
AGAAACAGTC ATTGCCCAAA ACCACCTAAC AGCAGTTGGG GTGACGTCTC CACAGGGGGG AAATGTTATA GGAGTTATTA
AGAAACTATC TTAGGCAGAT AGAGAGCAAA AGGGGTCCTT GGGAAATTTT TGTTTCTTTT AAAGTAGCTG CAGAAATGTT
TCTTGCCTAG CAGGAAAAGC CCCAGCTCTT TAAAGCTGGG GCCAGCAATC

SEO D NO:733: (Length of Sequence = 357 Nucleotides)

TTTTTTGGTG TGTAGAGACA AGGTCTTGCT ATGTTACTAA GGCTAGAGAT CCTTTTAAAA TGTTTTTTTG CTAGGTTGTT GGGCCATCAC CTCTCCTTTG TTTCCTTCTC CTCTCCCAGC TTCTCTGGAT TCCATCTGTT TCTTATACTG AGAAGTTTGC

TACCTAGCTA GCCCTCAACC TCTTTGTTTT ATGAATGGAA AGGCTGGGAC CCAGACAGGG CAAGTGACTC ACCCAGTGTC ACAGAGCTGT TAAATGGCAG AGCATGATTG AATCGGGCCA TGACTACTTT CCTACATGAC ATATTGAAAC CAGTTTGAGG CCTCGGTTTC CTCTCTAGCA AAACAGAGAT ACTAATG

SEO ID NO:734: (Length of Sequence = 374 Nucleotides)

TOGICAAAGA AGAGAAGGAA ACCTTOGTCT GCATGCCACT TOGIACITIT GTATTGCCTC CATGCCCTCC ACTGCAGCTC
CTGCCCTGCT CTGTGTGCAT CCCTCATGAG ACTCAAGACA GATAACCTCT CCTTGCCCTT TCATGTCCCA GCCCTGGNTC
TTGGACTCAA CCATCCATTG CATCCCCATG GAGGATTCTG CCAGTCCTCA GGACTCAGGA GCAACCCAAG GATGTCCCAG
GGTCACAGGA AGACTTGTTG AGGGGACCCA CAGGGGTGCC CACAAATTAT CAGTCCATGG AGAAAAGTAG AGAGGAGGC
TCAAGGACCT CAGCACGTAA GGGACATTTT GAATTCTACA AGTCACGGTG GGAT

SEQ ID NO:735: (Length of Sequence = 348 Nucleotides)

CCCAGCGCCT GGAGAGCCAG CCCTGCAGGG TGGCCTGGGC GAGCCAAACT GCGTTCCTGG TGCAGGGCTT CGGGTCTCCC
TAACAGACCT TATACGCTGA CCGGCGGCCG CCATGGCAGT GTCTCTTTGC TCAGACATCC AGGGACGACC ACATTCGTCC
AACAGCGGTC GCTCCACCAA TCCTGGGAGA AGGGAATCGT TTTCTCCGCG TGCCCTGTCA GCCGCTCATG GTGCCCAGGAA
AGGAATTTTA GTGGCAGCAT TCCGGCTGTC ACGCCACCGA AATTGCCAGG NCACTCCAAG TCAGAAGGAC CACCAGGAAA
AGTCAGGAAG AGAACCACCC ATCAAGGT

SEO ID NO:736: (Length of Sequence = Nucleotides)

ACACTOCIGA COTCAGGCAA TOCTOCCACO TCAGOCTOCO AAGGIGOTGG GATTACAGGO ATGAGCCACT GOGCCCAGCO
TACACACACT CITAATAGAA GAAATGAATA ATCAAAAAAT ATTATTGTTG GAAAAAAATGT TIGAATCITA TITTAAAAAT
AATTAACGNT TTCAATAGGO ATGTTGAACO TTTTTTCGGO TACTGTTTTC AGCAATTGCA GTTGAATGAG TACAAAATGC
ACCACAGAAT AGAGACTGCT ATCTACCCAA ATATTGCTGG TTGTTGAATC CATGGTAGGG AATTTNCATG TATTGTTACA
ACCAGCTATA AATACATCCC AAAATATGTG TAGAGCTAAA ATAGATG

367

SEO ID NO:737: (Length of Sequence = 243 Nucleotides)

TTAATCATTC AAACTTCATT TTATACAACG AGTGCATACA CCACTGGGGG AGTNTCTGAC TGATGCGTGG GAGGGCGGGC
GGGGATGTCT NCAGCTATGA GTAGGGAGGA GGCGGGGAAG CCCTGGGTGC TTCCTCTCCT CGACTGACCG CTGTGTGTC
GTCCCCAGAG GAAGAGCGGN NGGCAGTCAG CCCCGGGGGG GATGGCACAN TGGAGAGACG GACCTGCAGA AGTGGTGGCC
AAG

SEO ID NO:738: (Length of Sequence = 358 Nucleotides)

CEAGTCAGAG CTGGACAGCG GCGATGCCAT CTTTACATGG CCAGACCGAG AGAAGGGCAA ACTCCTGCAT GGTCAGAATG
GCTCTGTACC CAACGGGCAG ACCCCTCTNA AGGCCAGGAG CCCGCGGGAG GAGATCCTGT AGCCACCTGG TCTGTCTCCT
CAGGGCAGGG CCCAGCACAC TNCCCGGCCA GTCCTCCTAC CTCCCGAGTN TGCGGGCAGC TNCTGTCCCA GCATCTGCTG
GTCATTTCGC CCTGACAGTC CCAACCAGAA CCCCTNGGGA CTTGAATCCA GAGANGTCCT CCAGGNAACC CCTCAACGAA
GCTGTGAAAT GAAGAGGTTT CCTCTTTAAA ACTGGTTT

SEO ID NO:739: (Length of Sequence = 400 Nucleotides)

CATTICTOSC CAGGCACGGI GGCTCATGCC TGTAATCCCA GCACTITIGGG AGGCCGAGGC AGGCGGATCA CGAGGTCAGG AGATGGTCTA GACCATCCTG GCTAACACAG TGAAACCCTG TCTCTACTAA AAATACAAAA AATTAGCTGG GCGTGGTGGC

GOGITAGIAT TICCITAAAT AACAGGITAC AATAGAAAGA TACIGCCIGG AAGITATCCT TITCATTITIG GITCATTITIC
AGITTITIGIT TATGATITAC ATAGCIGITT AATICATTIG CITATAGIAC AATCCIGCCA TAAAGIATTA AAGCACAAGA
TACCIGITAT TCCCITCAAC ATCIGCATIT TITCAAGNIT TIATACICIA TATCCACAGI ATGICAGCAG TICIIGACIG

SEO ID NO:740: (Length of Sequence = 374 Nucleotides)

ATCGICAGAT TCACCAAGGI TGAAATGAAA TAAAAAATGG TAAGGGCAGC CAGACAGAAA GGICAGGITA CCCACAAAGG
GAAGCCCATC AGACTAACAG CAGCTCTCTC GGCAGAAACC CTACAAGCCA GAAGAGAGIG GGAGCCAATA TTCAACATTC
TTAAAGAAAA GANITITCAA CCCAGANITI CATATTCAGC CAAACTAAGC TTCATAAGIG AAGGAGANAT AAAATCCTTT
ACAGNCAAGC AAATGCTGAG GGATTCTGTC ACTNCCAGAC CTGCCTTACA AGAGGTCCTG AAAGGANGCA CTAAACATGG
AAAGGGNATA ACTGGTACCA GNCACTGCAA AAACATACCA AAATTGTAAA GGGA

SEO ID NO:741: (Length of Sequence = 290 Nucleotides)

AATTATTICA TAATAATGIA ATAAACATIC ATGAACATAC CCIATCAAGC AAGAGCIAGA ACCTIGGCAA TCATTICCIT
GACICCICCA GITTGIGGCT ATCATGATAT TCAGCCCCAA GITCATCATT TCIGITTTIN CITCIATACA GGITTCITAT
ATGIATTICT AAAAATCATT GGITATTICA TCITTGIAAA AAGICATTGI NCIATTITCC CCACTAGITC TACATTGCAT
TCATATTGIT GIGGGITGIG GIAATTCATT NATTITGACT GCTGIATAAT

SEO ID NO:742: (Length of Sequence = 274 Nucleotides)

TTAAGAGGAA AAGTATCTTT AGGAATTINT TICTATAGAG TICTICATTA ACATTIATAC GAGTITITIG CIGAGICAGA
TGGACAGTIG GGTTCIGATG CITTINCCTT CCCGCCTGCC AGGCIGGCCC AGGCAGIGCT CCCACCANIC TATGAGCGIN
TCCGGGGCCCG NGGATCIGGG CAGCATCCAT GGTGCCGGGG CCATCCCCAG CGGNACCACA AGGTNGCAGC GTTGNICCAC
GAAANACCGN CITICCGCTC TGCTTCCCCA AAGG

SEO ID NO:743: (Length of Sequence = 398 Nucleotides)

TIGCTITICA GITATCIGGA ACTOCIOGIG CICTITICAGG AGCICCIGGG TGIGCAGIGAT ACTGGAGCCC GIGGAGGIGT GIGGAGGIGT GIGGAGAAG GIAGAACICG CCATTGICAT GGATCCATTC CAAAGCCIGC TIGGCACTCC TCTCAAAGAC CACGIACIGC TGACACTGGT CCAGCCGICT CITCCICCATG GICCAGIAAT GCAATACCCT GITCTCCCGT TGGAAGAGIT CATTCAAGAT ATTTTTCACT TGCTGTTCAG GAGCTTTGAT GIGCGICACC ATTCCTGGCA TGITCACGCT TGTTCCTGTG CAGGIATTTC AGGAAGACGT CTGCATINCT CCGAGCAAGA GGIGCAAGCC TTCAGGAATG CCTCCTTINC TNCAGGGTGC GGTTTTCA

SEO ID NO:744: (Length of Sequence = 359 Nucleotides)

TECERCAGAG TETTECACTE TEACCTEGGE TEGAGTECAG TEGTECAATE TEAGETEACT GEAACCTETE CETTECGGT
TEAAGCCATT CTCCTGCCTE AGCCTCCAG GIAGCTGGGA TTACAGGCAE CTGCCACCAT GCCCAGCTAA CTTTTTGTAT
TGTTTTTTT AGTAGAGATG GGGTTTCACT ATGTTGGCCA GGCTGGTCTE AAACTCCTGA CCTCGTGATE TGTGCGCCTN
GGCCCCCCAA AGTTCTGGGA GTACAGGCGT GAACCACCGN GNCCGGCTGG GGCTGCTTAT TTAAATCCCC TAGAAAGAGG
GATTCTNCAG CTACACCACA CCCTTAACTT NGAAGGACC

SEO ID No: 745: (Length of Sequence = 361 Nucleotides)

CCCITAATTA AAAGITITAT TITTAAAAAA CGIAACAGAC CACTCIAAGA AACITIGGCA TICAAAGCAG TAGITACIGI TATTIGCIAA CICTGAAAAA AAAATITINC CCCICACAAA CAACCGGCAA ACICCIGCCA CITCCIAGCI TGGIGGCIGC CAGCGTGCAC TGCAGGGAAA CGGTGGGTGG AGGGATAGGA AGGCCCTCAC GCTCCCAACC CACGGAGAAA NTGCAGATGG TGACAAGCTG CATCTGGACT CCAGGNTGTA TCTGACAAAG AGGGAGATGG TNTCCTCCNT CCCCTNCACC AGCTCCACTT TTNCTGCTGA AGAAACAGAG ATGTGGAGGC AGGCGTGACC T

SEO ID NO:746: (Length of Sequence = 285 Nucleotides)

GIGITITIAT TIATACCIAC AAAAAGAAAA CAAGATGATG GIATCAAAAG GACAATITAC AAACTAAGAA TAGIAACATA
GCITTCAGCA TCCIGIGCCI GAACATCACA CATCTACAAG TCITTCAAGA CTTAATGCAA CAGGAATNIG TCIGGAGACC
AGCAAGANCA TCAATAGAGA GCACTGNTCC CAAGCAAAAG CCACTAACCT TITAGATGAG AAGTCCACAC AACGGATINI
TAGGGGAGGA TITIGGGNGAA GCACCCCATT TGCTTAATAC ATTGG

SEO ID NO:747: (Length of Sequence = 302 Nucleotides)

CAATGCAGIT TTAGAGTGCT CATTCTTTCA ACTTATTTGA CAAATATTTA CTGAATGTCT GCCATAAGGC AGTAAAGGCA CAGAATGACT CAAAGCCTTT TTNCCCTTAT GGGGTGTAAT TNCTAGTGGT GGAGACAGAC AATGAGCAAG TAAACAATCA ATCGGCTAAT GATAACTACT GTGAAGAAAA TAAAGCAGGN CAAGGGAATA GAGTATGCCA TCATTAAGAC TGGTTAGGGA AAGCTTCTTT GAAGACATGG CAGCTATTGA AAACCTGACT GATACAAAGA AGCAAGTCAT GT

SEO ID NO:748: (Length of Sequence = 346 Nucleotides)

GAGACCAGCC TGGGCAACAC ACTGAAACCC TCCTCTCTAA AAAGAAGAAA AAAATAAGAG TTTTGAGTIT TTCCAAAGAA
GAATGCTCAG TACGTTTGIN ATCTATCAGA AAGAAGAATC TGGAGGTCCT GACGTGTAAA CAGAGTTGTG GGTACCATCT
CACCAGAATT GCTGCCCTGA AGCCAAAGGA CTGAGCTGCT CAGATCTGGA AGTAATCTGA GCCCCCATTT CCAAGAAGAG
AATTGCAGAA TTTTATAGGA AGAAGGGACC TGATCCCTGT CAATGGAAGC ATTTTAAAAAT TTTTAACTGA AGTTCCAGGA
GCATACAAAA AGCCAGGAAA TTTACC

SEO ID NO:749: (Length of Sequence = 325 Nucleotides)

CTAAACTITA TITICAAAAG CITAAGGCCC AAATACAAAC TGAGGICITC CITCCIAACA AATTAATACT AAAATGAAAC AGCITITINIT GIGICCITAA GACAAAATAA GGAAGGAAAA CGIAGCIGCA GITGICCACG AIGGATATIG GITCITITAAA ATATATCIGA AAGIAGIAGT CAGAATGANI TATGGITGGA AAACIGAGGN ATCTICIGGI TGCAGGIGCA AAGIGACITT MITIATICIT GICICAGICI CCTTGATAGC CACITCACIC TGCIACIACT CAACTITCIC CTAAAAAATAC TICATCIAIT TICAG

SEO ID NO:750: (Length of Sequence = 341 Nucleotides)

TGTATTTINA GIAGAGAAGG GETTICGCCA AGITGGNCAG GCIGGICTCG AACTCCTGAT CTCAGGAGAT CGGCCTGCCT
CGGCCTCCCA AAATGCTGGG ATTATAGGCG TGACACTGTC TCTGGTTTAA GAGAACCATG GGCTGAGATA TINAGGAATT
CTCCAGGCCA CGAATCTTGG GGCATGCAGC CTCTTCCGTA CCCCACAGCA TCTNGGGGAG CTGGTGTGCT GATGGGTCA
GCTCTCCCAG CTGCCTGGAA AATTCTCAGA CACTCCCTAA GAGGACATCT CCACCCCTNC CACTCTNACG TCACTGCTTT
CTAACATTGC TCATTTGTTT G

SEO ID NO:751: (Length of Sequence = 377 Nucleotides)

TTTTTTGAGA CGGAGCITNG CTCTGTCACC CAGGCTGGAG TGCAGTAAGC CCATCTCTGC TCACTGCAAG CTTACACCAT
TCTCCTGCCT CAGCTTCCCA AGTAGCTGGG ACCACAGATG CCCGCCACCA TGCCCGGCTA ATTTTTTGTG TGTGTGTTTT
TAGTAGAGAT GGGTTTCAC CATGTTAGCC AGGATGGTCT GGCCCTCCAG CTTCCTCTGA GTCCCTTCAT AAACATTTGT

TTATCTIGIA AAATAATTIG TICCATTICT AATTAGIACA TAATGAGAGA GGCAGIGIGA TOGITIGIGC CTAAGNCCIT TCTTGCCAAG ACITICAAAG CCAAAAACIT CANCAGITIT CCTAGATGAC TAGACAG

SEQ ID NO:752: (Length of Sequence = 359 Nucleotides)

AAGTCAGGCG TTCCTGGGGC AGCTGTCCTG TGAAGTTGGT GGGACGTGCT ACCCTGGGCC AGCTCCAGGT GAGCNTGGCT
TCGGTGGTCC CCGTGGGCTC CTNAGTGGCG AGGGTGAGGC CTGGCACTGG GCCTCTAACT GGCCCCGTGG CCCTGCAGTC
TTTNGTGCTG GTGTCCCGCT TGCCCTTTNT CCGGCTGTTC CAAGCGCTGC TAAGCCTCAT CGNCCCCNAG TACTTTNACA
ANCTGGCGCC CTGNCTGGAA GCAGGTGAGT GGCCATCANT CGTGGTCATC TTGGNCTCAT NATCCCAGCT TTGGCCCCTG
GTTGGGCTCG GCAAGCAGCT TCTCCTTGGG GAGGGTCCT

SEO ID NO:753: (Length of Sequence = Nucleotides)

AGCITCAACI TEGAAAGAAG GATGATGCAG TITTEGGCCC TCCGGCCATC AAINACCGAC AGCNCITTGA CCITGCGGGA
AGCCAGGIAT AIGINITCAG TGGAGCCCAG CICITTCIGG TGCCICTGGI AGGCIGAAAA CAICITITCA AAATCCICTA
GGICCAGGNI CCGAAATACC TGCATGICAT CAATCTCATT CCATACGGIG CCAGGGACAC GCTCCTCATT CAGCITCACC
CAGTIGAAGG ACITCAGTGG GTGAGAAGGC TGGGGGACAC GCTTTTTCCT GAGTGGGACG

SEO ID NO:754: (Length of Sequence = 342 Nucleotides)

CIGITGAAGI GCAGGITIGA TOCAGOCAGI ATAGAACIAG CICIGIAGGG GIGAGGAGGA CIGINCIGIG TATCATCCIT
GATIGINITC CITCAAGGAG CATIGCACIG TAAGIACATC AGAATGACAA ATIGATGAAC TGCAACAGIA TCITITIGIC
AATGITCCAC ATAATGCAAA TGCCATACGI TGIGIGAATA TTATGITGGA ATACAGIGCI GATATCITGG AAAACCATAA
CIGCCICTIA ATITAACATA GAGIAATACA TAGINCIGIA TTITITITIAA AGIGAGCINI AATGOGAAAG TATTITINAT
ATGCTITTAGC TATAGCTAAA GG

SEO ID NO:755: (Length of Sequence = 321 Nucleotides)

CATTGCCATC TTCTCAGTCC TTCTCCCTTT CTTTCCAAGT AGTTTACGGC CCTAGGGCGA AGGTGGCTTT TATTTCCTCT
CTTGGGGAAG GAGGGGGAG GAGCTTTCCC AAGCACATCA ACCTAAGGAA GGGGTGGTTG CNCCCCCAGC AGCGAGGGGC
TGGAACTGCT GATCATTCGG AAGGAAGGGT TCGTTCTTGT CCACTTCCTG GCCCTTGGCT GCAAGGGTGT GCTTNGCAGG
GGTCACTCCC CTTGGGGGGTG GCAGCTCCTG CATCAGTNGA GGGCACAAGG AGGTATCTGC TGGTGTTCAC GAAGAGGAGG
G

SEO ID NO:756: (Length of Sequence = 368 Nucleotides)

TGCAGTGACC CAAGATCGCA CCACTGCACT CTACCTCGG TGACCCAGCA GAGAATTGCT TGAACCTGGG AGGTGGAGTT
TGCAGTGAGC CAAGATCGCA CCACTGCACT CTAGCCTGGG TGACCCAGCA AGATTCATTT TCAAAATAAA TAAATAAATA
AATGAGAAAA AAATATAGAT ATAGTAAAGG GAACAATTAC ATTCTACAAT ATTTTAGCAG AAGTAAATAT GGTTTAATTC
AATGGAAACA GCTCTGCTCT ATAGAAAATT CACAAATATT AAAAATAAAC ACACTCTACA TTAAACCTCT GAGCACTAGA
NGCTTACCTA CTTATTCATA GGGCTCACAT ACTGTAAGGG GGGTAAAT

SEO ID NO:757: (Length of Sequence = 339 Nucleotides)

CTTCCACTGC CAGGITATCG TCCCGGGAAG CCCCCCACCC CCTCGNTTTC CTCCTCCGCT TTCCCTAACC CGTCTCGCGG
GGGCATCTAC GNCTCGTCCT CGNCCTCCTC CINCTCGAAC TCCCCTTGTT CGTCGGCCGT GGCGTCCTGG TACTGCTGGT
ACTCGGACAC CAGGTCGTTC ATGTTGCTCT CGGCCTCGGT GAACTCCATC TCGTCCATGC CCTCNNCCGT NIACCAGTGC
AGGAAGGCCT TTCGNCGGAA CATGGCCGTG AACTGCTCGG AGATGCGCTT NAACAGNTCC TGGGATGGCC GTGCTGTTTC
CGATGAAGGT GGCCGACAT

SEO ID NO:758: (Length of Sequence = 356 Nucleotides)

TITTITIGIA TITCITITGI AIAGGGITA AATGITICCG TTATATITCC TAATIGGCIA TIGCICGIAT AAATAGATGI
GGITTIAGGC ACATATITIA TATCIGGCIC CIATACTAAA AATCITITAT CATTICCAAC AGITTICAGI TATGCICITG
GGITTGAAGG TAGACAATAA TGICATCTAC ACATAATGAT ACINCIGITT TCNCITITIA AATGCITATA GCICITINAT
TTITATIGCT TIGCITGIGC TATAAATNCT AGAATGAAGI TAAATAATCA TAGCAGATAT CCITTITCCT GATTTAATTA
TAATGCTCCT GAAATTITAT TAAGTATGAT GACTGT

SEO ID NO:759: (Length of Sequence = 333 Nucleotides)

GCCATGTGGG GGCGGGAGG CGGTGGGGGG GACGGTCAAA GACTTCATAA ATAAGAGGCG GGTCCCAGAC CCNCAAATTT GTCAACATGT CTTAAATAGG TGCATTATTT AAATCTTATG TACAACAAGA ATCACTTTGC ATAGCAATGG TGAGGACACA GGACGGGGGGG AGTTCGCAAG GGCGGGGGGG GAGTTCGCAG CTCAGCTCGG AGCCTCTAGG AAGAAAGCAT CCTTCGTCCG GCCCGCAATN GTGGCATCGG AGTTGACTTT TCCCACACGA CGGCATCAAN CACAAAGGCA AAG

SEO ID NO:760: (Length of Sequence = 311 Nucleotides)

CGICCTCTCT GCCCAACCCG CCCCCACCA TIGCCGAGGA GGCTGAAGAT GGAGATGGT CGGGCAGCAT CINCGGTTCC
ACCGGAGACC GCTTGGTGGC ATCAGCTIGC CCGGCCCGGC CGCAGATATT CCGGCCTCGA GAACAGCTCA TGCTGAGAGC
CAACAGCCTG AAGAAAGCAA TICGTCAGAT CATAGAACAC ACAGAAAAAG CTGTCGATGA GCAGAATGCC CAGACCCAGG
AGCAGGAGGG CTTCGTCCTG GGGCTCTNIN AGTCAGAGGN GAAGATNGAC CACAGAGTTT GNCCACCACT T

SEQ ID NO:761: (Length of Sequence = 314 Mucleotides)

TITITITET TITITITAAG AGACAGGGIC TCACTCTCTT TCCCAGGCTG GAGTGCAGTG GCAACGATCA TAGCTCACTG
CATCCTCGAA CTCCTGGCCC CAAGGGATCC TCCCACTTG GCCTCCCAAA GCACTGAGAT TGCAGGCGTG AGACACCTCA
CCTGGCTTGT CTGAGAACAT CTTTTAAAAA AAATCCCTTC TCTTGGGTTT TCTGTTACCC ATATGTCTAC TCAATTTGGT
TGTCTCAGCT TTGTTGTTGT AATGCAAAAG CAGCCATAGA CANTACATGC ATTGAATGAG TGTAGTGCAT TCCA

SEO ID NO: 762: (Length of Sequence = 319 Nucleotides)

ATAAAAGTAT ATAAAAGTIG AAATTAAAAG ACACATATCA TGAAAATACT AACAAAAAGC TATAATAGCT ATATTAATAT
CAGGTAAAAT AGACTITAGG ACAAAAGCAT TATTAAGGAA GGGAAAGTIG CTATAATAAT AAAAGGTIGA GTTAATCAAA
AAGATATAAT AGITTTAAAC ATTATGCATA TAATTAANIT CCTCAAAAAAT AGACAAAGCA CATATTGATA CTTAAGGRAG
AAATTGATAA ATCCATCACC ACAGTGGGAA ATTAGGAAGT TTCTGTACAC CTCTTTCACT TGTTGATAGG TCAAATGGA

SEO ID NO:763: (Length of Sequence = 369 Mucleotides)

TCCAAACTCC TGCCAGATAT AATTCIAAAA ATCTGTTGT TAATTTIATT ATTTIATTIT TGGATTTITA AATGCTTGGG
AATTGGGAGA TATGCACAAT TGTCTTTGCT TTGTTCACAA AATTAAATGC GTATTTGGT ACTTATAGGA CACTATTTGT
AAAAACATTT ATTCTTCAG ACATTGATGG TCTTGTCCCA GTTATTAACA ACATCTACAT GTTTAAGAAT AAATTTCCTA
TCTACTTCTT ATTCCATTGA AAATTACCTT TCTATCCTCC TACTCTGGAA GTCTTTATGN ATTCTGTCCT AATCATTAGT
ATCCCATTGC TTCTTCAAGA GGATGTCTGT CCAGTAGGAA TTTCTCCCCA

SEO ID NO:764: (Length of Sequence - 321 Nucleotides)

COCCITOGAG CAAGACTIGG AAAAAGCCAC GAATGAGTAC AACACTACAG AAGATTIGGAG TCTTATTAIG GACATALGIG

ACAAAGITGG AAGIACICCI AATGGAGCGA AAGAITGCCI AAAAGCCATA ATGAAAAGGG TAAATCATAA GGITCCACAT GITGCICIGC AAGCACIAAC TCITCITGGG GCTIGIGIGG CAAACINIGG AAAGATATIT CATTIAGAAG TATGITCCCG TGGATTIINC AACAGAAGIA CGIGCIGIGA TIAAAAATAA GGGCACATCC TAAAGITATGI G

SEO ID NO:765: (Length of Sequence = 329 Nucleotides)

TTGTCCCCA CAGGGAGA AGAGCTCTGG CCCTCGGAGA AGCCCAGACC TGGGAGCTCC TTGAGCCCGG GCTGTGACTC
CCTCTTTGGG GCCCTGGTTG GCGTCACTGC ATTCGCCAGT GCCACTGTTG GAAGCTGCTT GINATGCGCC TGGTCCAGGG
GGAAGCTGTT TGTTGTGTGC CTGGTCCAGC CACCTCATGG AGAGCCTGTG CTGGCACCTG GGAGCTGCCC AACCTGGGGCA
GCAAGCTTT

SEO ID NO:766: (Length of Sequence = 321 Nucleotides)

GCAGTGGCAG GTAGATTITA TIGGCCIGGG ACACACAGGG GATACCCTCA COCACGATGG GGTGGGGGGT GTGGTGTTGA
AGATATAATC INATGGTCAC TIGTGGTAGA ATCGCGGGTT CTGGCTGTNT TGGATGAAGG GGAGCCGAGG GCCAGGTTGG
CTGGTAGCTG CAAACCCGAC TITCCTGCTG GCTGCATCTG CACAGGGAGC TGGGGGGAAG CAAGGAGTCC AGGGGCTGGA
TGCAGAGCTT GAGTCGGAGA AGCCAGTCTG CTGGTTAGCA TGTNCCATCT GCTTTINCAA GGNCAGGGCA CCACCAGGCT
T

SEO ID NO:767: (Length of Sequence = 313 Nucleotides)

ACCICCCCC TAGTICACIA TICTGICCCC GGIACCCAGG GCATCATAGA CACTCAACAA CCATTCGITG AATATGCAAT
TGGATGAAAT GAATAAACGA CCAGAGGAAT AATCCAGACA GAGCAGCAGT GGCCAAGGGA AGGGAGGATT GATTTATGGG
AGAAAATTAG GGGAATGAAA TCCATAGAAA GGGITTGCCT AAGINAGAGT GATGACINGA GCCAGAAGAC ACCCGGGGA
GAGGAATINI TICACATGGT AGGAAAAGGG GAGGAGGGAG AGAGGTGGGG TGGTGGAGIN CAGCCTCGAG GCT

SEQ ID NO:768: (Length of Sequence = 372 Nucleotides)

TCTCTTCTCT GCCTGTTTAT ATTCTGCACG TCCTTAGTAA CCCCTGTGGC CCACTTCTTA CTTAGGTCTC TCCTAACATG
TATCTATGAC ACATTGATCC CTAACAGCTA TGATTCTNCT TATACTTTTIN CAGTAATTTA AATTTTATCA TTCTTACTGCT
TGTTCAATAC ATCTCTCTAT GTAAATCTTG ACTCCATAAT GAGGTTTTTTA ACTTCGAAGG GGTTGGAAGT TATCTGCTGC
CTTGGTACCC CCCCGCCATT ACACAAGAGT ACATTTTAAG CACATTACAC CTGAGTGATT GINGTAAAAC ACAGATGCAA
TCTTTCCACC ATCCTCTAGG AATTCTTCTG TGGGCTTTCC ATTGGGTTAC CC

SEO ID NO:769: (Length of Sequence = 321 Nucleotides)

GCAGCCAGAG CTCCAAGGCT CCCCGGGGG ACGTGACCGC CGAGGAGGCA GCAGGGGCTT CCCCCGCGAA GGCCCAACGGC ATGGAGAATG GCCACGTGAA AAGCAATGGA GACTTATCCC CCAAGGGTGA AGGGGAGTCG CCCCCTGTGA ACGGAACAGA TGAGGCAGCC GGGGCCACTN GCGATGCCAT CGAGGCCAGCA CCCCCTAGCC AGGGTGCTGA GGCCAAGGGG GAGGTCCCCC CCAAGGAGAC CCCCAAGAAG AAGAAGAAAT TNINITTCAA GAAGCCTTTC AAATTGAGCG GCCTGTCCTT CAAGAGAAAT

SEO ID NO:770: (Length of Sequence = 364 Nucleotides)

TTAAATCAGG AAATGTGATG CCTCCATCTA TGGTTTTTGA AAGTCATCAG CCAGAGCTAA GGTAATGAGG ATTCCCTCCT TCATGTTCAT ATGTCTTTAC ACTGTGCACA ACTGTCCCTA AAAAAACAAA CCCCTGGCCA ATTTCTCCAG GCTTATCGTC TCCCCGGTTT CAGTTACATT TCAGCTTAGG ATTTTCAAAA TAACAATTTG TTCTTGGCAG CCAGTCTATA TATTTAATTT ACCICICITE TIATCCCCAC TITTCATECT CTATETCCCA TAGGCAATIT GACAAAGACT GCTTTGACAA AGGATTCCTA
GACTTCTATC TCTACCTCTC ATCTGACTTG GGCGGAGGAT TAGG

SEQ ID NO:771: (Length of Sequence = 357 Nucleotides)

CASCICACIG CAACCICCAC CICACAGGIT CAAGIGATIC CITGCCICAN CITCCCAAGI AGCIGGACT ACCGGIGCAC
ACCACCATGI CCAGCIAATI TITGIATITI TNATIAGAGA CAGGGITICA CIATATGITG GCCAGGCIGG TCICAAACIC
CIGACCICAA GIGATCCGCC CACCICGGCG TCCCAAAATG CIGGGATTAC AGGIGIGAGC CACCATGCCC GGCCTAAATT
ATAGCIATIT TAGAATGITG AAAGIAGIAT TATGIGATTI CAGITIGCCA TAAATTITIC ATATGGITAC TAATTATTIC
TNITITIGIG GATATATCI: CIGGAAATCI ATIGAGG

SEO ID NO:772: (Length of Sequence = 359 Nucleotides)

CCTCTCAGGA AAACACCTAG ACATTATGTA ATGTATTTGA AGATTAATGT ACCCTTTAAC CAGCAGTTGT GTACCTAGGT
ACAAACTTTG CAAGCACACA CGCATGTNTG TNCCAAAAAG CACATACAAA AACACTCCTA ACAGCATTAT TTGTAATAAT
AAAATATAAG AAATTACCTA AATATCCATC GACTGCCATT GGTAGTATGG TTATACAATG GAATTCTACA CAGCAATGAA
AAGGAGCTAG AGCTACATGC AACAACATGG ATACAACTCA CAAACGTAAG ACTTAGTGGG AAAANGCTAG ACACAAAGTT
AACACCTTCT ATATGTGGGT TCCAGTTATA TAAAACCCA

SEQ ID NO:773: (Length of Sequence = 361 Nucleotides)

GAGCCTACGG CAGAAAAGA AACATCTTCC TATAAAAACT AGACAGAATA ATTCTCAGAA TCTGCTTTGC GATGTGTGCG
TTCAACCCAC AGAGTAAAAC TTTNCTTTTG ATAGAGCAGT TTTGAAACAC TCTTTTTGTA GTATTTNCAT GTGTATATTT
AGAGCGCCTT GAAGCCTACG CTAGAAATGG AAATATCTCC CCATAAAACC AAGACAGAAG CAATCTCAGA AACTAATGTG
TGATGGCTGC ATTCCACACA CACGGTGGAC CATTTCTCTT GATAGAGCAG TTTTGAAACA CTCTTTCTGT AGAATCTGCA
AGTGGGATAA TTGGGACCTC CTAGAGGGCC TTCGTTGGAA C

SEO ID NO:774: (Length of Sequence = 387 Nucleotides)

GTITICGCTCT TGTTGCCCAG GCTGGAGTGC AATGGCGCAA TCTCGACTCA CCACAACCTC CGCCTCCCAG GTTCAAGCAA
TTCTCCTGCC TCAGCCTCCC GAGTAGCTGG GATTACAGGC ATGCGCCACT ACCCCAGCTA ATTTTGTATT TTNAGTAGAG
ATGGGGTTTC TCCATGTTGG TCAGGCTGGT CTTGAACTCC TGACCTCAGG TGATCCGCCT GCCTCGGCCT CCCAAAGTGC
TGGGATTACA GCCATAAGCC ACTGCGCCCA GCCAGAAGAT GCATGATTTC TTAGGATCAT ATGCTGTTTG TAGCCATAAG
GTAAATCATG TCTCTTCCAA TCATGACTTT TGGGAACTCC CTGAATAATA AAAATGAGAG TTGAGAT

SEO ID NO:775: (Length of Sequence = 401 Nucleotides)

GAATTINICI TICIGCATCG TICIGICATA AAAAGGGGTA CIACIATAGA ATAGAATGCA GGCTTAGGAC CCCCGTAAGC
TCACIGITCA ACCCAGCCCA GCAAACIGGT CAGITATAAA TITINCIGCA GGICCCTGAA ACAACAACAA AAAACIGGAT
GAGGTTICCC TCCCATCTIG TITITATGICC TIGGGAGCIT GACCITATAA CCATACGGCG GIACITITINC TIGGICICIG
CCATCCAGGG AACCAGAATT TGGGGGGTTA TGTCATAGIT AGCTCTAAAA ATTATCTTGA GCAGITAAAA GCCTTIGCAA
GCTTAAAAATT GACIGCTGTA GGNTCCTTCT GGGGAAGGAG CAATGGGAAA CCTINCCAAA GCTTATAGCT CANCCAGCTG

SEO ID NO:776: (Length of Sequence = 345 Nucleotides).

TGTATTGACA TICTATTTC TTTCTCCTCC AGATACTATT TTTNGGATTT NAAACATACA CAATACTTAG GAGACTTGTT
TTACTCAGAG TGGAAAATTT TNCCAGGGAC AAAGTCAACA CAANGAAACA AACAACAAAA AATAGCCAGA AAGAGAACAG
TTAAGTGCAG CTCGGTGAGT CCCCGCCAGTT CCTTCCCCGC ACTGGCTCGT CCCTGGGGTT CTCAAGGTTC CATGCGGCCA
CAGCGTCCGT CCACCTGTTC CACGAGGCC ACATGCTGGA ATT

SEO ID NO:783: (Length of Sequence = 350 Nucleotides)

CATTCAGGCC GGGCACAGTG ACTCATGCTT GTAATCCCAG CATGNITGNA GACATAGCAG TAGGGACTAT CGACAAAGAA ACACACAGAG GGAAAAAGAA TICCACATTT GGGAGGCTGA CGCATGAGGT TCACCTGAGG TCAGAAGTTC AAGACAAGCC TGGGTAACAT GGTAAAACCC CGTCTCCACT AAAAATACAA AANTTAGCTG GGCATGGTGG CCTGGGGCTG CAGTCTCGAC TACTTGGGAG GCTGAGGCAT GAGAACCTCT TGAACCCGGG AGGTGGAGGT TGCAGTGAGC AGAGGTCATG CTACTCTCAA GCCTGGGGCA ACAGAGGGAG ACCCTGTCTC

SEO ID NO:784: (Length of Sequence = 265 Nucleotides)

ATTACTGAAA AATGGAAGAA AATATTIGCA AATTACACAT GIGAAAAGCA GITAATATCA AAAATATATA AGANACTCAA
AGGACTATAC AACAAAAAAC AAATAACCAT GAAAAATAAG CAAAAGATAT ATATAANINA TTINCAAAGA AAGACATACA
TATAGCTIGG CAGATAGATG AATATGGCTC AAAGTCAATT ATCATCANGG AAAGGCAAAC CAAAACAACT CTAAGATATA
AACTCACTCC TGTTAAANIG TITAA

SEO ID NO:785: (Length of Sequence = 363 Nucleotides)

SEO ID NO:786: (Length of Sequence = 291 Nucleotides)

AACAACAATC AGCCACAATG TGCTTTTAAG GATTTAACTG ATAGTAAAGA TAAATGTGAG TNTTAAGAAT GGGATTTTTA
GACTAGGCTG ACACAAGGGA TCTTCTTTNA ATAAGGNTCT TGAGCATTTG TNTTTTTGGA GCTCATCCTT AAGGGCTGGA
CAGGAAGAAT CCTGTGTTAT GTGTGCATGT TGAGCAATGC AAAAAACACT CTGCCAAATC CTNGATACCA CATGGTCTNG
AGAAATGCAT GAGTGATTTA ACGCACGGNT GGGTGTAGTC ATTATGTTCC T

SEO ID NO:787: (Length of Sequence = 256 Nucleotides)

TATTICIGIA TAATTIINAT TATGACCATA AAAATAACAA TGTAGICAAT AACAATITAA TIGTACATIT TAAAATAATT
AAAGTATATA ATTACACTEN TIGTAATAAA AAGTATAAAT GTTAGAGGIG ATGGATACCT TATTTACCCT AATGTAATTA
CTACACATIG TAGGCCIGAA TGAAAATATG CCATATAAGG CATAAATATA TACACATACT ATATACCCAC AAATACCAAT
AATAAATITC AATAAG

SEO ID NO:788: (Length of Sequence = 322 Nucleotides)

GGTCCAATGA AGCTTCAACT CGTTTTCAGC TCAAAGCAGA CGGCAAATCA GCAAAAAGCA AAAATAATGT ATCTTACTGC`
ATTACAGACA AAAAAAAAAA AAAAAACAGA GTGAAACTAG ANCTATTTTC AATAGTAGTT TTCTGACAGC TATATAANCA
AATATAGANG ACATTATGGA ATTAGTGATG TGAACGAGAA CTTGTCCATG TATCCTGCCT GCCAGCAAAG GTAGAGATGG

CIGINATATT TGIAATGGIT TACTATGAAG GCTGITCCAT AACCINCAAT ATCCACTGNI CITGGGIGGI ATACCAAGGA
TA

SEO ID NO:789: (Length of Sequence = 357 Nucleotides)

TCAATGTGGC ATTIGITTIT NITAGAAAAC CCCTTAGTAA GCACITCTCT AACCCAGAAT AGACACTGGG TATCCTCCAA GAGTCCCATA GCTTCATTT CATCTTCCAC CCTCTTCTGA GAGGGGGAGG CAGGGGATAG GGGTGGTGTC AGGCAGTCTC CAAAAATGCCC CTCCTAGACC CCTCAAGGAGAA TTCATGTTGC CAGCAATAAA CCAACAGCAC CTCAGTGGGG CATCANAGGG CCCTCTAGGC TCAAGGCTAT TGCCAAAGGG CATTCCTGTT TTATGAGCTT CACGATGGGA ACCAAGGNAG GCTCTCGCAA GACTTCCTAG GGGCTTGGTC CTTCAACTTA TGGGCCT

SEO ID NO:790: (Length of Sequence = 366 Nucleotides)

TGGCCAGGCT GGTCTTGAAC TCCTGACCTC ATGATACACC CGCCTTGGCC TCCCAAAGTG CTGGGAATAC AGGCGTGAGC ACTGCACCCA GCCTTGTGG ATCTTTTAAA GTACAGGTCC CATAGATTTA CATTAAGAAT AAAAAAGTCA TGACATCTTG CTTTTATATG GCAGTTTACT CAAGCTTTTT AAAGAAAGAG CATTCATCTT GCTTTTACGT GGTTTTAGAA TGTTGAAAAAC CTTTTGYTAA ATCTGAGTAA TTTACTGCAT TINOCATTAA TTCAGCTTAG TTAGACTGCT GCNTCCAGTG CTTTGTTTTG CTGTCACATA TACCCTAATA TGCTTTTTAA CATATGNCCA AATTCC

SEO ID NO:791: (Length of Sequence = 317 Nucleotides)

AACAACTOCA ACCATAATGG AGAAGGAAAT GGCCAGAGTG GCCACTCTGC AGGGGGCCCT GGTTTTAGGA GCAGAACTGA
GCCTAGCAAA TCTCCTGGAA GTCTGCGCTA TAGTTACAAA GATAGTTTCG GGTCAGCCGT GCCACGAAAT GTCAGTGGCT
TTCCTCAGTA TCCTACAGGG CAAGAAAAGG GAGATTTCAC TGGCCATGGG GAACGAAAGG GTAGAAATGT AAAATTCCCA
AGCCTCCTGC AGGAAGTGCT TCAGGGNTAC CACCACCACC CINACAAGGN GATATTCTAG GGGGTACTCA AGAGCAT

SEO ID NO:792: (Length of Sequence = 258 Nucleotides)

GATCAATATA TCCAGGAAIT TGTGAAAAGA TCCTAAACIT TTCAAACATG TCACAGGTAG TACTTGAAGT ATGCTTGGTA
AAATGTACCG GTTAAAGCAG TATGTTTCTC AGATAGCCTG AGATTTTATT TAACAATTAT GTATCTAAGT CTACTAATAC
ATTTGAGCAA AAGAGTGTTG GGTNCATAAA TAAGANGTCA GTATTTCACT TAGATTATTT CAGAAACTTG TAAGTNCCTG
TAAATAGCTA CTCTGAAA

SEO ID NO:793: (Length of Sequence = 282 Nucleotides)

GGAATGACAT GGTCATTCIN ACTIAAAAGA AACATTITAG GITCACACTT GCCAAGITAG GAAGAAAACC AACCTTAGAT
CCCITCCCCC CCACCAATAC TCCITTCCCC AAACACCGTC CCCACCCGAC TCTATGITTA ATTGAATTIT TATTTGTGAT
ATATAGAAAA CCTAACCCAT GGCTGINATG CTGAGTGTCA TTTGGCTTCA AGCTCGAACC AGGGNACAGC TTGGCCTGGA
ACCCTGAGAC AAGATGCTGG CCTCANAAGG TGGGGGCTCA CG

SEO ID NO:794: (Length of Sequence = 330 Nucleotides)

GITGAGGCTG CAGGGAGCCA TGITCACCCC ACTGCACTAC AGCCAGGGTG ACAACAAGAA CCTTTCTOGG CGTGAACCCA
GGGGGGGGAG TTGCAGTGAG CCAAGATCGT GCCACTGCAC TCCACCAGCC TGGGTGACAG AGCAAGACTC CGTCTCAAAA
AAAAGITTAC TACTCGGCTT TAATTATTTC GTTTCGGTTT TGGGTGAAAT NATTTTATTTA CTGACTGGTT CCTTAGTTGT
ACAGAAGCCT ATTATCTTTA GAGAGACTCT TCATGGTAAT TAACTCAGAT TCTTATTTTG CCTGGGTGAA AGGANGGCAA
GTGGATCTAA

SEO ID NO: 795: (Length of Sequence = 332 Nucleotides)

GGAAATAAAG GTGACATGAA CTAACTATTC AATCATGAAT GGTAGAAAAA AATGAAAATG TAACGAGATG GGATCCGGGT
CAAAGTCAGG GGAGGTATAG TTGAAGATAT TGAAGGAGTC ATTATGATAC CAAAGAAAAT GGAAAGANGT GGTATCCAGA
TAGGTTATCC TTGGAGAGTA TCCAGGGATG TCTCTTINCC TAAGACCTTA GAGAAGGAAA GGATGGCTGA TAATATAGGG
AAAAGTTGAC ATGGAAGGAT TAAATAATTT TTTNAGAATT CACGTAAGGN ATGATAATCT GAATTTCCAG GGCTAGGCTC
AGAAGCAGAA AT

SEO ID NO:796: (Length of Sequence = 305 Nucleotides)

CCCAAGGGA CASCCIGANC TCCCIGCICA TAGIAGIGGC CAAATAATIT GGIGGACIGI GCCAACGCTA CTCCTGGGTT
TAATACCCAT CICTAGGCIT AAAGATGAGA GAACCIGGGA CIGITGAGCA TGIITAATAC TITCCITGAT TTTTINCTTC
CIGITTATGI GGGAAGITGA TTTAAATGAC TGATAATGIG TATGAAAGCA CTGIAAAACA TAAGAGAAAA ACCAATTAGI
GIATIGGCAA TCATGCAGIT AACATTIGAA AGIGCAGTGI AAATTGIGAA GCATTATGIA AATCA

SEO ID NO:797: (Length of Sequence = 337 Nucleotides)

GECTECATTA TEACAAGAAG TCAAGCTTCA TEACAGTTAG TATGGGCTGG AGTCTGCAAA GTCTGAACTG TATTCTCATA
GAATGATTCC AGGTTTCAGG GTGTTCCACC TGCCAGAACC CAAAACTACA ACTATGGGCG ACACAAGGGA AGTTTTAGAA
ATCTCCCTCT ACACGCATTT CTGGTTTTCT ATTATTCCTC CATGGCAGCT GACAGATCTG GAAGTGNAAA TAGGGGATTC
TCAAAATCAA AGCCANGAAG ACACCTTGTG TGACACCAAT GGAGTCTCAG AGGGTGGGAA TAGAAGTGAC TTNENCCCAG
GCATTTGCTG GGAACTT

SEO ID NO:798: (Length of Sequence = 341 Nucleotides)

GAACCCIGGA AGGICIAGGC TACAGIGAGC CATGITIGCA CCACTGCACC CCAGCCIGGG TGACAGAGIG AGACACTGTC
TCCAAAAATA ATAGIGATAA TAATAATAGI CATTIATITI AAGICTACAT GCTGAGATGC CAGAACAAGI AAAATTGGAT
TATAGATTCA AGCAGIATGI AGGIATACIT TCATAAACIG AATACTGATG TAATTITIGGA TGATTAAAAAA CAGACTITTA
GTAGGIGTTC AAAAATCTGG NITAATTCCTT TCATGACATI CAAACATTTA GGTGGCCTGT CTTTGTTTTT TTAGGRYTATA
ACTIGCAAAC ATTCANTIGT T

SEO ID NO:799: (Length of Sequence = 322 Nucleotides)

TITITGAGIA ATGAATICAT TIAATATAAA CITTAGIATA GCAGAATACT ACAGGITACC CACATITAAC CCTAAAAACA AACAAATGAC AGGCACTICA GTGAAATAAC AAGCCCATGT TCAAATATAA AATGCTAAAA GTGAGAAAGA AATTATGAAA ATATATACCT TTAATTTGCA GACATATAAA CACTITTGGT ACAGTACAGA TGCATGATGC CAAAAAGTAA AATGNTCCAG TTTAAGCTAA CACATTCCTT GITTATACAG NITATTTTNC TATAGCTCTC ATATAANANA AATATTNCCA GCTCACACAA TG

SEO ID NO:800: (Length of Sequence = 405 Nucleotides)

ATCAAGAGIT GIGIGGICIA CCGACTGAGC CIGCCAGATA ACCCIGIAGT ACAATITIIN CAGCATAGIG GAAAAGAAAG CCATGGNICT GGGCAGGICA GGGITIGANC GCIAGIGCNI TGIATIAATG ATCATGATGA TAGCTAGIAG ACAGGGCITA CCAGATACIA GGIGCTCTCT TAACTGCTIT ACATATGINA GITAACTCAT TTAATCTICA TGACATCACC CCTGAGATAT GGGTAATATT ATAATGCACA TTTTATAGGT GATGAGAGG AAGCACTTGC ACAGATTACT CCAGCTTAGT TCATAGCAGA GCTGGGGACIT TIAAATCAAG GCACTAGATG GITCCAGAGC TTTGTACTAC TCTTCCTGGG TCTTTCACAG TCTGAGCTGG TCCCGG

SEO ID NO:801: (Length of Sequence = 408 Mucleotides)

CIGCGITCCA TGIAGCGICT TCCACAGINC TCIGITATAA GATGGITIGI TACATIGCIG CAGATATITC TGCATGICIC
TIGAGITTCI CAAGACCAGG GITGIATTIT TCCATGICIG TCGATGAAAC AGIACATGAC AAAAGAAGGI ACITAATACA
TGITTGATAA ATTAATIACT GITTGGIAAA TTAATIATIG AAGGAAGACC CAGACTGGIT CTGATAAATC ATTGATIACA
TITTACAAAT TTGGATAAAT TAGGGGAGCC TTGAGAAGIT AGAGCTCTAG GGAAGGITCC AGGGAACGIT TGAAGGATGI
GAAATATGGI TTTCAAAATT CATAGITTAT TGCAGGATTC TGCAAGTGA GGGCAAGAT GAGGAAGANG
ATGGGCTT

SEO ID NO:802: (Length of Sequence = 343 Nucleotides)

ATGAGACTTA CTCACTATCA TAAGAATAGC TIGGGAAAGA CCCACCCCCA TGATTCANCT GGGICCCACC CACAACACAT
CAGAATTATG GGAGCTACAA TITAAGATGA GATTIGGCTG TGGACACAGC CAGACCATAT TAGACTCATA ATTIGNCTTC
TGCACAGTAA GANCTGGGCT GGGATACCTC ATAGATCATA AACAAATCCG CACCCATGAA AAGATTTAGA GAGTCACACA
GGAAAGTCAA CAGAAGNCAG AGAGATGTGG GTCCTGGNCT TGCATGTCAT TAAGTGGTGG GNTCCTTCAG CTTTCACATN
TTCAGGCAGT GGGGTCAAGA AAC

SEO ID NO:803: (Length of Sequence = 182 Mucleotides)

GAATGGCCTT NICTAACGGC ATGIATGACI TGCATGANCT CICIAAAGCI GAACIGGCCI CACCICANCC TGICITGCIG GCAAATGCGG CCTTCAGTGG GAAAGIAAAT GGCAGCTGCT GINATTACCT GGTCGNIGAA GAAAGACAGA TGGCAAAATT NATGCCTGIT GGGGATGACA GC

SEO ID NO:804: (Length of Sequence = 312 Nucleotides)

TTTATTTACT GOOGITGIAA ATNATCACAA AACATATTCA TIGICAAGIG AATGCACAGG CITICAAAGG IGATIGIATT CIGCAAGGIG GGGAATAGCC AACIACCITC TAAGGIGAAT GINCAGCCIG CCATITCCAA CCCCAAAACT CCTCTAGATT CTCAACAGGG CAGCITCIGC TTCATGCCIC TNTTCGGAAA GGICAGCCCT GIGIAGAAGG CTTAATACCA ACATGCAGAT CCACCTGAGA ATCACTGGAA TGCTCTGGAA TGCTCTCGGAA TGCTTCCCGGA ACCCAGTCAG GCTINCGGAA AT

SEO ID NO:805: (Length of Sequence = 411 Nucleotides)

CATGCAAAAT TCAGAATATA AAAAANTGCA GGGCCTGGTT GCCCACATAC ATTCCTCAGG TTAAGGTGGA TTTAAAGATG CCCAACAGAA CCCAATGAAT CAGAAGCTAA AAGGGACACT TCAGTGATCA GCAGACGCAT TCTCTCACGT AACAAATGGA GGGAAAGTGA GCCAACATTA ACTAGCGAAG TCACAAGGCT AGATTAGGGG TGTACAGAAA TCTAATTCCT GGTGCTATTT GCAACTACAT ATATTTAAAA TACANGGAGA TAAATACCCA GAACACATTA AGCCTACTGA TTTAAACAGA NCATTTCAAG ACTGCTACAC AGAAAGGGAA GGGAAGCTGT TAACCCAGCA CAGCAGCACA CCTCACATAT TTCCGTCTCA GAGGTTAAAT GGGAAAGGAAG G

SEQ ID NO:806: (Length of Sequence = 287 Nucleotides)

GCATTINAGI GCIGATACAG ATACAGIGAG TICCIGCCCI TICCICICCI NIATATIGAA GGGATTATAA ATGAAGCTCT
TTAAACATTC TGAGATCINI AAGITGATTI CIACATGAAC TCCAAGIGGI GITAATGACA TITTCAGAAA AGATGCTITTA
CITAGCIGAC AAGAAAAAGI ACICIGIAAG CCITTATTIG TATGIGATAA AACAGAGITG ATAAAATAAT CIACTATTAA
CTIATCAATG CAGICTTACA GAATCCACCT ANITACAAAG TAGATAA

SEC_ID_NO:807: (Length of Sequence = 369 Nucleotides)

GGCAGATATA ACCITTICIC AAACATCICI AATIGICIGC ATACCCCACI AATATIGGCI ACATAATACA TITATITITIG
TCATITIGGGA CTAAGIGCCI TACTIAGITI TGINCAGIGI ATICATTAAT TGAAGAATA CITATICAGG ATITCIATTA
CITAGITTIG CTCAATATAT TCACTAATIG AAGAAATATI TATINCAGGAC TTCCATTATA TGAGCACIGG CCITIGIGGI
ACAAAGATAC AACATGAATC TGAAACTCAA TITAATCTAG AAAGATTTAT TAATATAANC TCATCAGAAA AGCAACNCAT
CTACTGTGAT AGCTACAGTA TTGGTTAGAA ATGGAAAGAG AGACCAGAT

SEO ID NO:808: (Length of Sequence = 361 Nucleotides)

CAGGCTTIGT ACCAGCCGCC ATACTCTCCA AAAGATGTCC CATCCTTTIN CTITCCTTIG CATTCTTCTC TTTCTTCAGC
ATGCATCCAG ATGGGTTAT TTTCATCATC TACAGAACCA AACTCCCTTT CATGGGCACG AGGAGAATC TCTTTGTACA
GTGTTTCTGC TTGCTTGAAC TTTCCTTGTT TCAAATAGCA GGATGCCAGG TTATTTTNCG TCTTAGCCAC GTTGGGGTCA
TCAGGTCCCA GTTTTGTCTG GTAGATCTCG AGGGCTCTTT GATAATAATA TTCTACTTCT TCATACTTGC CCTGGGTTCT
GGCACAGTAA AGGCCAAGTT ATTTAACTGC TTGGCAACAT C

SEO ID NO:809: (Length of Sequence = 353 Nucleotides)

CTAATTTATC TICATGICCA GIGAGCAGIG TIGCGITTIT CCTIGIAGCA TITGGAAATG ATTTACIGGA ATTACAAAAC CIATTTICCC TITAAATTIC AGCITIGGCI CIGGCIGCIT TITAGAATAA TGCAAGATAA AAATCACACC TGAGGGCIGA AAACGGAGAG GGAATGGAG ACTIGATATT TAAGCAGCIT GAATGGITTIT CCNIINCIIT ATTITIAAAG AAATGCACIT GCCTATGATA CIGICTCTCC AGIGAAATGA TIACTCCTCC ATTACTCTAT TGATACANTA TIGIGCATGC TAGIGITGTA TITCTATACA GTAGCITGAA AATTGATTAA CCT

SEO ID NO:810: (Length of Sequence = 296 Nucleotides)

GAGGICAATG CITCCCAGGC TCGAGITGAT GCCCACAGGT GTATTGIACG AGCATTGAAA GATCCAAATG CATTTCTTTT
TGACCACCIT CITACITTAA AACCAGICAA GTTTTTGGAA GGCGAGCTTA TTCATGATCT TITTAACCATT TTTGTGAGIN
CTAAATTGGC ATCATATGIC AAGITTTATC AGAATAATAA AGACTTCATT GATTCACTTG GCCTGTTACA TGAACAGAAT
ATGACAAAAA TGAGACTACT TACTTTNATG GGGAATGGCA GTAGAAAAATA AGGAAA

SEO ID NO:811: (Length of Sequence = 493 Nucleotides)

CCAGGACCTT CICCICICIT GCCAGGCCTA TGAGCAGAAA CCTCAAATAA ACCCIGGGCA GAGAAAACCA ACTTAATGAA GAGGACCTTG CIGITTCCAC TGGCITCIAA TTTTGCAGAT GCAATGAGCA CITACGGCTT TTGCAGTGGT TCAGGAAAAG GCAAGAAGAA GCAAGAAGAA GCAAGAAGAA GCAAGATGIC ATGTTCCAAA GCCCICIGAT GGCTGCATGG AGCCAGCGGT GCTGTGACTT TTTTTAATAG CTTCAGTACC TTTNATACGT ATGTCCTTAT TTACTCTTTA TCTATGCTCT CTTCCTCCCA TCAGCCTGGG AGCTCCCTGG GGCAGGTCTG TTTCTCCCCT CCAGTCCGGA NITCGCAGGA GCTGTGCCTC CCCCATCACA CTTGGAGGCT GTCTNAAGGC AGGGGGGT GTCTNAAGGC AGAACCTAGG GGT

SEO ID NO:812: (Length of Sequence = 337 Nucleotides)

AAATTCACAT ACTIGIAAGI NAIGCAAGCA AATTCICACA TAATTATTIT TAAATGCTAG ATAGITGGIA TAATINCAAT CATTTIAAAT ATGITAAGAC TIGITTIGIA CCCTAACATG AGGICTATNC TGAAGAATGI NCCATGIGCA CITEAGAAGA ATGACTGGAG TGINCTITAT ATGITATGINA GGICCAATTA GCITATAGAA TIGCNCTAGI CCTCTATTIC CITATTCANC TTTTGITTIGG TIGITGINCT ATCCATTATT AAAAGIGGGG TATIGAAGIC TCCTACTATT ATTGIGCTAT CATCCTCAGC AAACTAACAC AGGANCA

SEO ID NO:813: (Length of Sequence = 310 Nucleotides)

AGGIGGOCTO AGNICAGOCA AGCIGACOTI GGCACTIGGO TGGCTTCTINI AAGGCANTAG AGTGCCCACA CATAAGONCA
CCACCINICO CCACCTCCTO CCITCICTOC CATGCCACCO CACTIGCTTO CAAGGGCTTG GITTCCAAAG TNACATCCAG
GGTGTAAGAG GITGGGGAAA ACGICCTGCA AGNIGGCTCA GGGATCTNAT TCCATCAGAT GGTCTCATGA ATACTGTGGG
AGATTAAATO CATCTCAAAA TAGGCAACCA ATGCTATATT CTGAATNINA GGTCTCTGGA CTGAGTCCCA

SEO ID NO:814: (Length of Sequence = 361 Nucleotides)

GATTIGAGCC ATCAGAATIC AGCITTIGIA GATAAAGAAT ATGAACTAAT TGACIATGGA TGGAATIATT GIATATAGIC AGCITGCIGA ATTATTGGIT AAGCACTACT AACTATATCT TGGIAAACTA TGGIGCAACT GAGCCACCCC CIAAAAGCAA AAGACATITA GCAGITCACC ATATTTIGCA ATTAACCAAA TGAGAGCCTA TGAGANIGAA ATGNITICAG GIGGAGTITG ACAATACAAT TCATCCNITAA TATATAGGGN NAAATATTIC CTCAAAAATA ACATCTATGT GGIAGGNCCT TAAAAACGAT GGATCNAATG CATGCAAAAAT TCTCTGGTAC ACAGACACAT G

SEQ ID NO:815: (Length of Sequence = 301 Nucleotides)

GAATTINACT CITGITTCCC AGGCIGGAGI GCAATGGCAC GATCITGGCT TACCGCAACC TCCGCCTGCT GGGTTCCAGC
GATTCTCCTG CCCCAGCCTC CIGAGIAGCT GGGACTACAG GCATGCGCCA CCACGGCCAG CCAATTITTG CATTINAGI
ACAGACGGGG TITCACCATG TIGGICAGGC TGGCCTCGAA CTCCCGACCT CAGAGGATCC GCCCACCTTG GCCINCCAAA
GTGCTGGGAC TACAGGTGTC AGCCACCACA ACCGGNCTAA TTAATACTTC TTGAAATTTC A

SEQ ID NO:816: (Length of Sequence = 310 Nucleotides)

ATCITTAACA TATTAAAATA GACATGAGAA AAATGIGICA TITGATAAAA TGGGGGAAAT GTAATAAATG ATTACCAGAA ATATAAAATT AAGCCGTATA TGCNCITAAG TAAATCGAAT CTAGGCATCC TTAAAATGTA AAAAAGGNTG CAACAAGAGT AAGGCCCCCA GAATGATGTA AATTACAGGA ATGGGGTGTA ATGTAACCIC TAGAGGAGGT GATGTTTAGA AGAAGCAAAG NGAATGCAAT GANGAAGCAA ACTTGTTTTA GGCAAATNCT CCTGGGAGTG GGACCAGGCA GCCCCCTCTT

SEO ID NO:817: (Length of Sequence = 225 Nucleotides)

SEO ID NO:818: (Length of Sequence = 225 Nucleotides)

TTAAAAAAAC CTGTAGTTTC ATTACCTTTT TGAATAATGN CATACAAAAA ATGTATTTGN TTTTTTTGTGC TGTGAGAATT GATGTTTGTA GATTAATAAT CATTTTGTTT AGAATTACAA AATAGTTTTT AAATATTGTC TGAGAAAAGC CAAAGTTAAT GCAACCNAGT GGAAACTGTA AGACCNTTTG AGTATTGTTT GTTTTATTGG ATGCATTTGG ATTTT

SEO ID NO:819: (Length of Sequence = 280 Nucleotides)

THEACTAGCT TOCTACGTCA THAAAAATTC THAAATAGT CHGTCTTAAT GGCTGCAAAT THTGTCGTAA GTCTGGGCTA
AAATCTGATG AAATGTTTTA CCTGTGGTTA AGTAATTTAG CAACTCGTAT CTTTTTAAAA TATTACAACT GGGAATTCTA
GTACGTCACA AACATTTGTN ATATCATTTA TTTTGTGCCA TTGTCTGTGC TATGAAATAC AGTAGAATGA AAATTTACTT
CAAAGCATTC ATUNTCTTCC CCCAGGGAT GATGGCAAAA

SEO ID NO:820: (Length of Sequence = 328 Nucleotides)

CCAGTTAATT TIGTAAAGIT TATAGAGATG GITTCAGITA GACCIGIGCT GICAATACAC TAGCAATTCA CATGCACATT
TAANTTIAAA TCTAAGITTA AATTTAAATT AAGITAATAT TAAATAAGAT TIGAAATGCA ATTCTCAGIC CTACAAGCCA
TGCTTCAAGT GCTTCATATC CATGTGAGGT TAGTGGCTGC TATACTGGAT AGGGCAAAAA GAGAACATTA TIGTAATCAT
AGAAATTCTA TIGGTAAGIT TATGGGGTAG TACATGGACT AGAATGTAGT GAGGTAGTGA GCTGTGGATG CAGAGAAAGG
NCACTGGA

SEO ID NO:821: (Length of Sequence = 310 Nucleotides)

TCAGCATIGI TITCTGIATG INFIGAGATG ATTATTTGGT TITCCTTTT ATTGTGTTAA TITGGTGAAT TGCATCANCT
TTAGTATCIT AAACCAACCI TGCCTCCTA GGGTAAACCI TATGTGGTCA TAATATATAA NCCTTTAAAT ACATTATTGG
ATTNCTTTTT TTAATATATT GCTGAGGATT TITCATGACT ATAATCATAA GAGATATTGG CATATGATTT CCTATACTTG
TAATCNCTTT GTTAGAAGGA GTTTATATTA GCNTTTATNC TGGCCTCATA AAATGGGTTG AGAAATGTCC

SEO ID NO:822: (Length of Sequence = 372 Nucleotides)

GCCAGATTGT NITCCTTGG AGCCCTGAC CCCGGCTACT CTTCACCAGA CACGCCCGG CTTTGGCCCA CAACACAGCC
GTCCCACCCC TGGTTCCTTC ACCTTAGCAG TAGCAGTAGC TCTGGGTGGA GTTGCCAGAG GAGCTGACAG GCCCTCTGCC
ACTGCTGCCA CCCCCAGGGC TAGGGAGGGA ACAAAGAGCC TGCTTGCTGT GCTTGCACAT CCAGCATGCC ACAGCTGCAC
TACGGNGAGG AGGTCAGACA GTCCCCCCAA CAAGNCCCCG ATCCCTCTNC TCTCCACCAG GGAGGGCCCT GGGCTTTGCG
CCCACAGNAC AAAACGTTCC ANCCCGGGCT GATCATTCTG GGTTGGCAGC GG

SEO ID NO:823: (Length of Sequence = 288 Nucleotides)

AGCIGGCATC CCIGGGGAAA ACCAACGAAC AGICTCCTCA CAGCCAAATT CACCACAGIA CTCCAATCCG NAACCAAGIG
CCCGCATTAC AGCCCATCAT GAGCCCIGGG CINCITICIC CCCAGCITAG TCCACAACIT GIAAGGCAAC AAATAGCCAT
GGCCCATCIG ATAAACCAAC AGATIGCCGI TAGCCGGCTC CIGGCTCACC AGNATCCTCA AGNCATCAAC CAGCAGITCC
TGAACCATCC ACCCATCCCC AGNGCAGITA ASCCAGNGCC AACCAACT

SEO ID NO:824: (Length of Sequence = 325 Nucleotides)

CTCCTGAGGT CAAAGCTGCA CGTGGGGAAG AGAAAGACAA GGAGACCAAG AATGCTGCCA ATGCCTCTNC ATCCAAGTCG
GCCAAGACCG CCACTGCAGG ACCAGGAACT ACCAAGACGN CCAAGTCATC TGCTGTGCCC CCAGGCCTCC CTGTGTATTT
GGACCTGTGC TACATTCCTA ACCACAGCAA TAGTAAGANT GTTGATGTGG AATTTTTCAA GAGAGTGCGG TCTTCCTACT
ACGTGGTGAG TGGGAATNAC CCTGCTGCTG AGGAGCCCAN CCGGGCTGTC CTGGGACGCT TTNTTTGGAA AGGAAAAAGGC
TCAGT

SEO ID NO:825: (Length of Sequence = 318 Nucleotides)

AATCAGCCCT ACAGCGATTC CTCCACCCCC ATTAGCAAAT ACCGTAATAT ATGNCTCTAG TAATCATCCT CTCACAATTC
INCTITICCT AATTINNCCG TGAGTCAAGT TTCTTGACCA CAATGTTATG CTGAGGAAGA TCTAATGTTT TCCATGGAGC
AGAAATTGTT AGTCCTCAAC TCCAAGGTCT GCCTTGTCAA GCCCTGTTIN CCGTGTCTTC ATAAACCTTG TCAGGCATTT
ATTTATTCAG CACATATCTA CTGINCTCTG CACAAGAATT CATAAGGTTC TGATGAATTA TGTCCCTTCT GAGTGGGA

SEO ID NO:826: (Length of Sequence = 287 Nucleotides)

TACAGACTCA GGTTATAGGG TGINATTTTY TAAGTCAATA TTCAGTTTCA CAGCCAGAAT CTGTGAAGAG AGAACAAACC ATGAGAAAAC TAACANTTTT ATGGTGATTG AGAGGTTCCA AGINCCTGGN GTTTTAAAAA AATCAGTTTT TAAAGATAAA

CAAACTAAAA CTAGTCCAAG CACTGAGACA GAGTATTAAA AGATGGTAGC ACACCCAAAG NGCACGGTGG GTCTTGAATA
GCTAACATGT TTCAAGTAGT GGAGGAAGAT GTGCTTAAAT AGTTACC

SEO ID NO:827: (Length of Sequence = 426 Nucleotides)

THITTITIGI TITGGGACAG AGICTCACTC TGICACCCAC GCTGGAGTGC AGTGGCGTGA TCTCGGCTCA CTGCAAGCNC
TGCCTCCCGG GITCATGCCA CTCTCCTGCC TCAGCCTCCA GAGTAGCTGG GACTACAGGG GCCCGCCACC ACGCCCGGCT
AATTITTTTG TATTITTAGT AGCGACAGGG TITCACCGTG TCAGCCAGGA TGGTCTCGAT CTCCTGACCT CATGATCCAC
CTGCCTCGGC CTCCCAAAGT GTTGGACTAC AGGCATGAGC CACCGCGCCC GGCCGGATGG TTAAAACATT TTAAAAATAA
ATATTTAGTG CTAAGACAGG ATATGGAGCA ACAGGAACTC CTATATGCTT GCTGGTGGGG AATGCAAAAT GGGTACAACC
ACTITTGGGA CAAACAGTTT TAGTAA

SEO ID NO:828: (Length of Sequence = 402 Nucleotides)

GGCTGCTTGC TCCACTCAAA CAGGTATCTG GGAGCCAGCA CTCTGGCAGT CCTTCTAAGC TCTAACTCTG GTTTTACTGT
TTTNNAGGTG AAACCTTTGT CCTGGGGAAT AGTCTGGCCC GCTCCTTGGA ACCACACTCA GACTCAATGG ACTCTGCCTC
AAATCCCACC AACCTTGTCA GCACCTCCCA AAGGCACCGG CCCTTGCTTT CATCCTGTGG CCTCCCACCA AGCACTGCCT
CAGCTGTGCG CAGGCTATGC TCCAGGGGTA AGCTTACCAG AGTCCTGGCC CTNCTTCCCT CCCTCACTCT TTCCTTCACT
TCCTTCCTGA GCTCTGGGAG GCCAGAGAGG ACCTAGCTCT GTTGCCCTCT GNCINGTGGT GGGGACTAGG GACTGGACTT
AA

SEO ID NO:829: (Length of Sequence = 417 Nucleotides)

ATCCGTTAGG AGTCGCCTT ATGTGGGAAG AGAGAAAAAA ACTTGGTGAA ATGCTTTCTG GACTAATTGA AGAAAAATGT
AAACTACTTG AAAAATTTAG CCTTATTCCA AAAGAGTATG AAGGCTATGA AGTACAGTCA TCTTTAGAGG ATGCCAGCTT
TGAGAAGGGG GCANAGAAGC ACGAAGTTTG GAGGAAACCT GTGAAAAGCT GAACAGGTCC AATTCTGAAC TTGACGATGA
AATCCTCTGT CTAGAAATAG AGTTAAANGA AGAGAAATCT AAACACTCTC AACAAGATGA ACTGATGGCA GATATTTCAA
AAAGGATACA ATCTCTAGAA GATGAGTCCA AANTNCCCTC AAATCCACAA ATAAGCTTGA AGNCCAAAAT CATTCTNGCA
AGGTTTCTTC CCAATGG

SEO ID NO:830: (Length of Sequence = 404 Nucleotides)

GGITTGAGAG TAGAACAGGA AGITGTGAGT AGAGCCTTGA AGGAAAGAGA ACAGCAGGTG CATGGNTCCC CAGGCAGGAC TCAAAGGIAGC CACTCAGGCA TCAGAAAGAG TCAGGCGGCC ATGATGGCTC ACACCTGTAA TCCCAGCACT TTGGGAGTCT GAGTCGGGTG GNTCACCTGA GGTCAGGAGT TCGAGACCAG CCTGACCAAC AGGGTGAAAT CCCTTCTCTA CTAAACTACA AAAATTAGCC AGGTGGGTG GCACATGCCT GGGACAAATT TGGGATCAGT GTTCTCCAGT CTGAACATAG TCTTCTGTTA CCTGGGAGAG AGTGGTCAGG TACTTCCAGC TTCAGGGCAG CCAAAAGCAT TGACAAAACG ACAGGTAGGA TGGGGGGGAGT AAGT

SEO ID NO:831: (Length of Sequence = 330 Nucleotides)

AATTICACAG GITGIGICIT CIGAAATCIG TACCITCITA CICATAACAT TIAATGIAGC ATTICICAAC CIGACCAATC
TGCAGAAAAT ATATGICATA TATIAATIGT GIATACATGA ATATATGCAT TITCCIGGIA AAAAGICATA GITTINCATA
GATGICATGI AATCITTIAA GAGATICICA AATAGGAACA TGATCCACC CCAATAATGG TGAAAAATGA TCAATTTAGA
TGAAAGGGAC CICAACAAGC CICTIGAGAT ATGAANCATA AAGAGNAAAT ATAAGCCGCA ACTITITGAC ATGACAGATT
CATAATGGIT

SEO ID NO:832: (Length of Sequence = 402 Nucleotides)

CRETTTICTC CITITATITI CCCATTAIN CICCCAGIGC TAACITGATA TCINCITGIG TGIACACGIG TGINIGIGIG
CAAATATAIT TCTAGGAACA AGAGCAAACA TICIAGTAAC TATCATTCIC TGATGIGGA AACITGGGCA GAGATCIGAG
TTACAGCITT GIGGATTIAT TCTCCTGGCC AGGAGGAAGG GIATGGGGAG CCCGIGCATC TIGACCGCGIC ATGGATACCA
GGGGTGAATG GCAGGGITCT TCTCCTGCCC AGGAGGAAGG GIATGGGGAG CCCGIGCATC TIGACTGICA GGTCACCTGI
CITACCACCT TTACAGCTAG GCTTTCTGAG GIGCCAGCGT CICCIGGGAA TTCAAACTGI AGITTAGAGG CAAGCTGGGI
GA

SEO ID NO:833: (Length of Sequence = 398 Nucleotides)

AGCCTITITIC CAGAGATCAG ACCTCTITAG ACATCIGAGA NITICATACAG GAGAAAAACC TIATGANIGC AGIGAATGIG
GAAAAGGCTI CICCCAGAAC TCAGACCICA GIATACATCA GAAAACTCAT ACCGGAGAGA AACACTATGA ATGCAATGAA
TGIGGGAAGG CITTCACAAG AAAATCAGCA CTCAGGATGC ATCAGAGAAT CCACACGGGA GAGAAACCTI ATGTATGCNC
TGACTGIGGG AAGGCCTTCA TCCAGAAATC ACATTTCAAC ACACATCAGA GINITCATAC TGGAGAAAAG CCGTATGANI
GCAGTGACTG TGGGGAAATC CITTCACTAN GGNAGTCACA ANCITCCATG TGCATCAAAG GNITNACANC CGGGGAGG

SEO ID NO:834: (Length of Sequence = 394 Nucleotides)

CTTTTTGTT AGTCTGTAAA ATCATTTCCA GGTAAAATCT AGAGCTTAAT CCATATGING TGCCATCTTT TGCTTTTCCA
CACCTCTNAT CCTAGGTAAG TNAGAGCTAA GAGTATTIN CTGAGCTTCT ATTATGGGCC CAGCATATGT NATAATTCCT
TTTACACATA GGAATCTGAG GCTTAGAGAA GTTTACTGAT TTACCTAATG GCACACCATA AGINCTGGGG CTAAGATTTA
AACTCAGGTC TCCTGACTTA ATTCAGATGG TCAGCTCGAT GGTAATCATA ATAATATTGT NGTTGTTGTT GTTGTTGTTA
TNTATCAACA ATAGTAGTAG CTAAGTCCAT TTCATGAAAC AGCTCATTGG ATAGTCCCAT NTGGATAATT CTGA

SEO ID NO:835: (Length of Sequence = 422 Nucleotides)

GCTTTCTGCC TCTATAGATT TGACTATTCT GGACCTTTCA CATAAACGGA ATCATGTAAT ATATATAATA AGCAAAAGGT.
AACAACAACC AAGCTGGCAA TTTGGTTGAT GAATGANTAA ACAAAATGTG CTGTATCCAT ACAGTGGAAA TATTGGTGCC
TACTACATGT GGATGGACCT TGGAAACATC ATGCTGAGTG AGAGAGAGCC TTGGTATTGT TTCATCTCCC CAGGAGATTC
CAAGGTGCAG CCAAGGTTGA GACCCACTGA CAAGCAATGG ATATGGTTGG GTGCAGATGA AATAAGGCAG CCAGGGGCAG
GAGGGATGTC TCATTGAAGA TGACTGTTTT GTGGGATGCC TAGCAGGGGT GGGGGGATGA GGTATTGATA ACCAGCAACC
CCAATCTTCA ACACAGCGTG GA

SEO ID NO:836: (Length of Sequence = 408 Nucleotides)

CTCAAAAGAG TTGCCATCTC AGAAGGGAAG TGTAAGINAG ACAATTGTCA TTGATGATGA AGAGGACATG GAAACAAATC
AAGGGCAAGA GAAAAAATTCC TCCAATTTTA TTGAACGAAG ACCTCCTGAG ACTAAAAACA GAACCAATGA TGTGGATTTC
TCCACTTCCA GTTTTTCAAG AAGTAAGGTA AATGCAGGAA TGGGTAATAG TGGTATCACC ACAGAACCAG ACTCTGAAAT
TCAGATTGCT AATGTTACAA CTTTAGAAAC AGGTGTAAGC TCTGTGAATG ATGGCCAATT AGAAAATACT GACGGGCGAG
ATATGAACTT AATGATTACA CATGTAAACA TCACTGCAGA NTACCCACTT GGGAGGATTG TCTCTAACCG GGACTGCAGT
CCAAGTAA

SEO ID NO:837: (Length of Sequence = 347 Nucleotides)

TOGGTGTTT GCCCAGGGTG GAGTGCAGTG GCACGATCTC AGCTCACTCC AACCTCTGCC TCCTGGGTTC TAGCGATTTG CCTGCCTCAN, TCTCTCAAGT AGCTGGGATT ACAGGCATGC ACCACCACTC CTGGCTAATT TTTGTATTTT NAGTAGAGGC GGGTTTTGC CATCTTGCCT AAGCTGGTCT GGAACTCCTG GCATCAAGTG ATCCATCCAC CTTGGTCTTC CAAAGTGCTG GGATTACAGA CGTGAGCTAC TTCACCTGGC CTTGTTGGCT CTTTTTCAAA AAAAGTTTAC TNGACTCTTG CTTTATTGCA AGTCCCAGAA TGGATTTGAT TTAGGGA

SEO ID NO:838: (Length of Sequence = 275 Nucleotides)

AATTGCCAAG GAAAATTITA TITTAGCTIT GCATTAACAT ATTCTAAATA ATCCTTTCAC TTAATGCAAT CAGATTCCTG
TGACAAGCCA AATACTTGTT TITTTGTGTG TGTGTGTTTC CCCTTCACTT TTCATTGTAT GCCCTTCAGA AAAATCTGAG
AAGTGGGCTT CCATTTTTGA AAAACAGGAC TTCCTTAGTA CCATAGATAC GTAGATTGCA ATTINCCTTT TCCTGCAGCA
TTACTGACCT TGTGAAATGA TGCCTATGGA TACGG

SEO ID NO:839: (Length of Sequence = 387 Nucleotides)

TTTTTGINIT GIGIGIAGAG ACTGGITTI NCCATGINCC CAGGCTGGIC TIGAACTCCT CGGCTTAAGC NATCCTCCTG
CCTTGACTIC ACAAAGIGCT TGANITACAG GIGIGAGCTA CCACGCCTGG CCATGITTIC TIGIGIGAAG GATCIGITTA
GTTTTATATC TITCIGIGGC TCATATCTAA TTTAGTTGAC AGIACCTGIG GGICACTAGG TAGACATTGC TAGCAGACGT
TTAGAAATGA AATACTAGAG CTTGGGAAAA AGITGATATT TGAGATAGAG ACTTGAAGAA CATTAGCAGA GAGITGGTAG
TTAAGGTCTG TGAGCTGGIG AGCAATTCAA AATAAAAGCA GAAGAGAAGA GGAAGACAAG GGICAAC

SEO ID NO:840: (Length of Sequence = 367 Nucleotides)

GTACTAAAGC CATGCAGGAA GGAGGAAATA ATCAGTGAGC CACGGCTGA ACTTGTGGAA AAGAAATGGA GGGCAAGGTC
ACAAACCAGT COCTAACTGC TTCTAATTTA ATGTAATCCT CACTGTTTGT CATTATTGCT TTTNATGGCC ATGAAATCTG
TTTTTCCCCCA GINCTCTAGT GTAATTTGGA ATTAATTTCC CAGCTGCTTT ATTTTTTTCC TAGAAGAGTC GGGGACATTT
TCAGGATTAG TAGAGGTGTT TCTACAACAC CTTCATGCCT TCGATAGTGT GTAAGAGTTC ACCAATTGAN TTACCTTATT
CTGTTCAGAA GTAGTAACTA TGGAGTTTAA CCACTCTGGG ACATAAT

SEO ID NO:841: (Length of Sequence = 346 Nucleotides)

TGGAAAGGAA AAGCAAAAGA TIGAAGAATA AAAACATTIT GIATTIGCCA AAACTIGINC TGIAGCAGIA AGIGIGAAAC
AAGITIGCIA CATTITCCTT TITGGITTIA CITGGITGGG GCITTITIGI TIGGITGGIT TIAAAGGATI TAGGGGATIG
GCAAGICAGI TIGICAGATG TCAATGAACA GAAAACCTAA GAAAAAAGGI AGCAAAAGIN CIGCIGGCCC CAGATGGATT
TINCCTTAAG TAATITCCTA ATCATTAGIT ACAGCTCTGI GTCAAAAGAT GTACATAGAA ATTTATGCTA GATTCTTAAC
ATCTTTCCTT ACTGIGGCA GAAATG

SEO ID NO:842: (Length of Sequence = 326 Nucleotides)

GITCTITGAA ACAAACGAGA ACAAAGACAC AACATACCAG ANTCICTGGG ACACATICAA AGCAGTGTGT AGAGGGAAAT
TIATAGCACT AAATGCCCAC AAGAGAAAGC AGGAAAGATC TAAAATTGAC ACCCTAACAT CGCAATTAAA AGANCTAGAG
ANGCAAGAGC AAAGACATTC AAAAGCTAGC AGAAGGCAAG AAATAACTAA GATCAGAGCA GAACTGAAGG AGATAGAGAC
ACAAAAAAACC CITCAAAAAAA TCANTGATTC CAGGAGCTGG TITTTGAAAA GITCAACAAA ACTGATAGAC CACTAGCAAG
ACTAAT

SEO ID NO:843: (Length of Sequence = 380 Nucleotides)

GECCTTCAAA TTACAAAAAG CAATTTACAT TATAGTAATA GITATGTTT ATAGTACAGG AACAAGAATG AGTTAAACTA
AATATTCCAA ATCAGTACAA GINATINCCT TITTTTTTTT TTGAGACAGG GTCTCACTCT GTCACCCAGG CTGTCTTGCT
TTGTCATCCA GGCTGCAGTG CAGTGGAGTG GTCACAACTC ACTGCAACTT CAGCCTCCTG GGCTCAAGCA AGCCTCCCAC

CTCAGTAGCC TCCCACTCCT GATTAGCTGG GACTACAGTG AATGTGTCGC CATGCCCAGC CTAGTGGTAT TTTTAACAGA
TAANTAAGAA TGGAGGTAGT GGCAGAGGTG GAGTGAGANG AGAGACANGT AAAATATAGG

SEO ID NO:844: (Length of Sequence = 257 Nucleotides)

TTTCCCTCTC GITGCCCAGG CTGGAGTGCA ATGGCGTNAT CTTAGCTCAC CACAACCTCT GCCTCCCAGG TTCAAGCAAT
TCTCCTGCCT CANCCTCCCG AGTAGCTGGG ATTACAGGCA TGTNCCACCA CGCCTGGCTA ATTTTNTATT TAAGTAGAGA
TGGGGTTTCT CCATGTTGGT CAGTCTGGTC TCAAACTCCT GACCTCAGGT GATCTGGCCA CCTCGGCCTC CCAAAGTGCT
GGGATTACAG GTGTGAG

SEO ID NO:845: (Length of Sequence = 420 Nucleotides)

CTACACACAT CITECATIAC CIGECAGIAA GCITEGAGAG TAAGIITIGC AGAIGCAGAT CAGAAGAGAT TAGGAAGAGC
TITECAGATC ACCGCAAGIA TITEIATITC ACICTAAAIT AAACAGAAAA CCCAGGAAGG GITITAGGCA GATAAAITGC
ATTATTIAGI TICIGIATIT AAGICATCAT TIAGGITACT GGGGGAGGCT GCCCIVAAGI GGATCAGAAG TAAAAGGCAG
AGATACCAGC TAGGAAGCIG TIGCAGIGAG CCAGGIGAGA AGAGAGGGCC ACCIGGACCA GGIAGAAGCA GTACAGGIGA
AAAAANICAG ACACITCCAA ATCITCCICA AGAITINATA CATTATITIGG CIGGGCACGG TGGGCICACA CCCGTAAATC
CCAGCACITT TGGGGAGGCC

SEO ID NO:846: (Length of Sequence = 215 Nucleotides)

GNCTGGGTGA CAGAGTGACC CTGTCTCAAA AAAACAGTGA TTGTTTGTAA GGAAATTATT AAAACCTTGG TTCAATATCC
AATATCTTAA CTTTAAATTT TCAAATACTT CAAAACTAGT AAGTATTACT ATGTCTAAAG CACAGTGCAG TCCAACGGAN
TATGTGAGCC ACATATATAA TTTTAACTAG GCCAGTAGTC ACATTAATAA GAAAA

SEO ID NO:847: (Length of Sequence = 266 Nucleotides)

ACACGAAGAA TOTOUTTCAT CGCCAAACAG CITICAGAGA TAGATGCITT GITTCCAATC GAGCATGCTA TICCAGTGTA
CTGNACATAC TGTF...ACCTC GTGTTAGGCA CCTTTATGAA GAGATNAAGN CACTGGCATT TCAGTGGGAT TITAAGCATT
TTTAATAGCT TCATGTACAG CATGCTGCTT GGTGNACAAT CATTAATTCT NCGATATTTC TGTAGCTTGA NTGTAACCGN
TTTAAGAAAG GTTCTCAAAT GGTTTG

SEO ID NO:848: (Length of Sequence = 275 Nucleotides)

CNCCICGGIC CCCITITAAA AATTACITIT CAGCCGGGCA TGGIGGCICA NGCCITGIAA TICCAGCACT TIGGGAGGCT
GAGGITGGAG GWICACCIGA GGNCGGGAGA TIGAGATCAG CCIGACCAAC ATGAAGAAC CCCGTCTCTA CTAAAAATAC
AAAAATTAGC CGGGCGINGI GGCACATGNC TGIAATCCAG CTACTCGGGI GGCTGAAACA GAAACCACCA ACGNCTGACC
TCAGGGAGAT GTCTAAGAGC TTCTGGCATG CCTCA

SEO ID NO:849: (Length of Sequence = 318 Nucleotides)

GGAATTTINC TAGTGAGGAG TGGAGGAAGG GGGCCTGGTG GAGGAGTAGC AGCCTTINCA AAGGCCCTGA GGCAGGAATA CCTGGGAAGT GGGGGGGTGC TTGTINTAAGA TGAGGCTAAA GAGGAAGGCG AGGCTTTACT TAGGAGGAAT GGGAAGCCAC TGAGTGTTAA AATTAAAAGC AGTNGGGGCT GGGCACAGTG GCTTACACCT ATAATCCCAG TACTTTGGGA GGCCAAGGTG GNTGGNTCAC CTGAGGTCAA MGAGTTTNAG ACCAGCCTNG CCCAACATTG GGCTCTACTA AAAGTACAAA AATTAGCT

SEQ ID NO:850: (Length of Sequence = 320 Nucleotides)

ATGICIGOCA ACTORGAGO AGGGCAGGAA TOAAACITIT TOGAGTIGOT ATCAAGINCT TGATTITINCA ATCOCAACOG
TOCGCAGAAC ACTAGATGIG TGNATGINIG CTITGIGIGIG CATTIGIAGI AAAGAGGGGG TTGAGAAGIG GAAGGCAGAG
NOAGGAGING GCATCIACCA NGGCATACAT NAAAGACCCT TACACCAACA CTGCCCTTCC CAGNAATGIG AGTGTAATCT
GGTTTCCTAA AACCCTGGGC TGCAGTCCAG ATAGTCATGG TTAGANCAGA TGGTTGAGGA AAGGTTCAAG GCAGTAGGAT

SEO ID NO:851: (Length of Sequence = 170 Nucleotides)

CATOCAAGAT ACCAAGATAT ATGAGGGAAC ATTINNITTA ATAAAAAACA CAAAACCACA AATCCAAGAG GCTCAGNIAA COCCAAGTAA AATATATACT AAAATACAAG NAAAAGGGAA AAAATGCATG NACACACACA TATAGGCATA TCATATTCAA ACAGTTGITA

SEO ID NO:852: (Length of Sequence = 256 Nucleotides)

CAAAGIACAC ANGIGIATIT ATIACATIIT GCAAGCACTC TGITCIACAT TTCAAAAACG CCACCNICAA GCIGITGGCA
CATITATGIA CAAAACAGAT TAATIGIAAT GCCIGCTACA AAGCACTCIG TGAAAATACA AACTCTAATA CCAGAAATAA
AAGCCAAAAG TGICAACATC ATIACATAAG TNGAAAAGIC AGITTINGAA ATIATCACAA ACTGITATGN CACGGAACIG
AAATACTATA ATATAG

SEO ID NO:853: (Length of Sequence = 281 Nucleotides)

GIATGINGIT TCTCTTCTCT TGCTGCTTCT AGGATATTIN ATCCTTGACT TTAGGGAGIT TGATTATNAA ATGCCTTGAG-GIGATATTIT TNGGGTTAAA TCGGCTTGGN GITCTCTAAC ATTCTTATAC TTAGATATTG ATATCTCCTT CTAGGTTTGG GAAGATCTCC GTTGCTATTC TTTTGAATAA GCTTTCTACC CCATCTCTTT CTTTATCTCC TCTTTACAGC AAATAAAGTT TTAGANTTGC CATTTTNAGG CTATTTTCTA GACCCTGTAG G

SEO ID NO:854: (Length of Sequence = 255 Nucleotides)

TCIGICCAGG ATTATTACCA GCTAAACCAN GTAATGGAGG TCTATGCCTG ATGAAGAACA CCTGTAAAAG CTGGAAAATG
TGGCTGTCTT CTCAAATGGG CAGATACCAG CACAANGATA CAAGGATTGT AAAGACTCAG AATCATGTTA CTTCCAGAAG
AAACTANATA AGNTCCAACA ATGAACACAA NATAATANAA CTNAAGGANA TTTGGANAAC ANTGCATAAA CAAAACAAGT
TTAATGAATG ATTAG

SEQ ID NO:855: (Length of Sequence = 333 Nucleotides)

ATAGCTGIGG TOGIAACCCA CCAGAGIGAG CATCCTINCT TCINAGGATA GACGITGGGT AGIGGGATIG GGGAGAGGCA GGACAGAGGC TICCGTTGIG TCICCICIAAT TCATTGTTTC TTAAAAAAGGA TTTGGGCTTA CAAGITTCAA ATACTAAGAT TINATAAAGT CACATGGATT TTAAAAAAATC ACICTATTGT ATGTTTGAAA CATTCCATAA TTTAAATAAA AGGATTGGTA TTATATATGT NCITGAGTTG CIATAATGTT TTACGGTTTT CCTTTGCTTC ACTTTTGAAT TNINCGAGGA TCTCCTGGGG GAAGNTTCAG TCG

SEO ID NO:856: (Length of Sequence = 230 Nucleotides)

TTINAGACAA AGICTIGCIC IGICACCCAG GCIGGAGIGC AGIGGCGCAA TCICGACTCA CIGCAACCIC CACCINCIGG GITCAAGCNA TICICCIGCC ICANCCACCC AAGIAGCIGG GACIACAGGC ACGIGGCACC AIGCCIGACI AATITITITGI ATTITITIIA GIAAAGACGG GGITICACCG IGITAGCCAG GATGGICICG AICTCCIGAC CICATGATCI

SEO ID NO:857: (Length of Sequence = 334 Nucleotides)

AAAAACAATT AGTAAAAATT ATGCATTAAG GAATTATTTA CTAGACTTTC TGGAAGTAAA AAATAAGTCA GCTGGTTTTC
CCTTTGANTT CCTATATATT AAGGCAGAAT TCTCTATACT GTCCACCAAA ATCATAGTTA CAACTGTTTA CTTGAAATGA
TTTATATACT GCATTGACCT GGCATGTTAA TATTINCCTA TAAATATCAC CACTTATCCC CATGCCCTAA AGCAGTTTTT
TTAAACCCAT TCTTTCTTGG AGAATAATTA TAATACCTTA AATACAGAAC TTTGGGTTTC TGATCTTGCC ATAGCCATGT
AGCACAGCCA CTGA

SEO ID NO:858: (Length of Sequence = 301 Nucleotides)

GGAGAAACGC CTAATGTAGA TGATGGGTTG ATGGGTGCAG CAAACCACCA TGGCACGTGT ATACCTATGT AACAAACCTG
CACGCTCTGC ACATGTATCC CAGAACTTAA AGCATAATAA TAAAAAANTA AGAAAATGGA AATTGATTTT AAAAATTTTT
ACAATGTGCA TCAAAAGACA ACATTAAGAA AATTAACAGA NTGGAAGAAA ACATTTGCAA ATAATTTATC TGATGAGGGT
TTAATATCCA GAAAATATAA AGANCTCCTA CANCTCAACA GCAANAAAAG ACAACCCNAC T

SEO ID NO:859: (Length of Sequence = 332 Nucleotides)

TGTCCTCACC CATAGAGCTA TCAGAGGGTG CCTGCNATTG GCAGACCCTT TACATTTCCC TITAATAAAT CACTTCCCTG
CCAAGAACTC TGTCAAGGTT TGAGAAGTCA GAGCATTAAG TTATTTUCAA TAAATGGTAT GTACATGAUC ATCAGCAAGC
TCCAAGAAAT GACTCGAGGG CCTTTNACTA CTCAGAGAAT AAAGCAAAAA TGCCAGGTTT TCAGTGCTTG TCCTTTGTGC
CAGGGATTTG GACGTGTTTT TTGTTAAGTN CCAGCGTTGA GCTATGTTCC AGAAGATGGA GCCTTCCAGA AATTAATTGT
AGTGCTTGAA GG

SEQ ID NO:860: (Length of Sequence = 233 Nucleotides)

AAACENTATG TGATTTTAGC ATTACAACAG TAATTCAGAA ATATCTCANN TGTTACATTG ATGTCATCAN TATTACAAAA
AAGGAAAAAA AAGTGACAGG CAACAGTGAA GAGCACCAGA GACCCAGGGG ACACCTAAAG TAGACCATGC TTCTTTCCTT
CCACTGCCAG GTTATCGTCC CGGGAAGCCC CCCACCCCCT CGCT TCCTC CTCCGCTTTC CCTAAAAAAAA NNG

SEO ID NO:861: (Length of Sequence = 327 Nucleotides)

GGGCAGGTGT CAGCGCCCGT TICACCGCCA CGTCGCGGAC ATGGTGATTT CAGAAAGTAT GGATATACTC TICAGAATAA GAGGAGGCCT TGATTTGGCT TITCAGCTAG CTACTCCTAA TGAAATTTIN CTCAAGAAGG CACTGAAACA TGINTTGAGT GACCTGTCAA CTAAGCTGTC TICAAACGCC CTTGTGTTCA GAATTTNCCA CAGTTCAGTG TATATATGGC CTAGCAGTGA CATAAACACC ATTCCTGGAG AACTGACTGA TGCTTCTGCT TGTAAGAACA TACTGCGCTT TATTCAATTT GAGCCAGAAG AAGATAT

SEO ID NO:862: (Length of Sequence = 378 Nucleotides)

AATCAGGTCC ACATTGTTGT CCTGGATGCT GAGTTTGCTG AGGGTTTCCA AGACCAGTCT CTGCGGGGAA AGGACGGCAT
TGGGGCCCAG GGTGGAAAAG GGGTCCTGGG CTTCANCTGA AGGGCAAACT GCCCAGTGTA GGAGTCCGTC CAGGACAGGC
AGGCAAATNC TCTCGGGGTA TGGAGATAGG TCCAACTGCC CCGAGATGTT GGGGCGTGTA ACCAAGGTGT TTTCCCGGAG
CATCTCCAAG CAGTCCCACC ACCACTCCAC TTTTTTGCAG CTCACCCCTT GGGTCCTGTT CCTNCTCCTT TTCATAAGTT
AGTGGTGCCT GCTTTCCGGT TCTGGGTGCT TTGTGGGTGC AGCAAGGATC AAGCTTTG

SEQ ID NO:863: (Length of Sequence = 374 Mucleotides)

TCAAATUAAT GETTTATIT CCATCTGIAA CACTAGCAGA GGAGTCCAAA GCAGACTGAT ATCCATGGAT ATAGTITAAA
TGTAACAAAG AAAGAGTTGA ACTATGTACA TTGAAAAAAAG GAAAGACATT TTTNCATACC AACCTTTCCC TAGTTCGCAG
TTTCTGAATA GTAGAAACAA AACACATTTT TAAATCTTTC TATCAATTTA ATTTAGGACG AAGTAACALA ACTTTTATAA

TTAACCACTG AAGINGTCTT TAAGGACAAA ACTTAAATTT TAAAATGGGT GTTACCATAT TTNATGAGTG GACTGACTCC AAGGTTGCCT TGCTCCAAGN NTGGGCATCG TGACATTGCC GTGATGCCCA GAGG

SEO ID NO:864: (Length of Sequence = 223 Nucleotides)

AAGGGGATAG AGCAGACACT CCGCAGGTNT CTTGAGATTA TCATCCGCTG AGGGTAGAGC TGAGGGTAGA AGGGGAGTNA GCAGACACTC GGAAGGTGTC TINAGGCTCA GGGAGTTATC AATTATAGAA TGTTGTTGAG TTGGAGGAGG TGGCTGGTGG CCCATCCTGT TTTTTAAAGT TTCANCTGTG AGGTAGGGCC AGTAGGGCCAA TCCTGAAGAA TGG

SEO ID NO:865: (Length of Sequence = 228 Nucleotides)

GRACCOGGGA GGCAGAGGTT GCAGTGAGCA GAGATCACAC CACTGCACTC CAGCCTGGGC AACANAGCAA GACTCCGTCT CANAATTTIN CCAAAATCTG ACGGAAAGAA AAGAAACAAA TGGTTCAGAT GGGACGGAGG GTGGGGGAGGGT GAGTAGGAAC CAGGAGGGCT GCCTGGGGTG GGGGAATAAN TTAAAAAAAG GAACGAGTTA ACAACAGC

SEO ID NO:866: (Length of Sequence = 328 Nucleotides)

GCACCACGTC AGAGAGGCCC CAGGCCACTG AGCCCGGGAG GAGACCCAGC CGGCCAGCCA GATGTGTGCC TGANTGCCAC
AGACTTCAAG CAGTTTACAA ACGAAACTCA CTGTTAAAAG CTGTTAAAAC AGTAGACGAG TGCTTTAGAT
TCTCTGAATA TCAAATAATA TATACAGATA GACACTGAGA CATGACAGTC TAATCTAAAG CATCTTTACA GATGCATTIN
CTTGAAAAAGT TAGTCTTCTT TTTAACTCTG AATCAGTGAT AAAATTGTTA ATTTGCAAAA GAGTACAGTT TTAAGCAAGA
NTAGAGTG

SEO ID NO:867: (Length of Sequence = 361 Nucleotides)

GITTCATGGC ATGINAAAAT TATGIGAAAT TCAAATTTTA GIGTCCCCAG TTCTACTGGA ACGCAGCCCC TATGIGGITC
ATGINITGCC TCCAGCTCCT TTCACACTGC AGCAAAGCAG GGAGTGIAAC GIACACCCCA CGGCCACGGG GCCTAAAATA
TTTCCTATCA GACCCTTAGA GAAAAATATG CCGACCTCGG ATGIGACTGA GGGTGGGGAC TTGGGTGAAT GCCGGCCAGG
AGTGACATCA AGGGTTTGAA GCAGACCCTC TGTCCAGGAG GGAGCGGAGG CAGAGCAGGG ACAGTAGINA GGAGGCCATC
TGTGGTGACT TAGGCAAGGT GAGGAGGATG TAGGAGGCAA G

SEO ID NO:868: (Length of Sequence = 364 Nucleotides)

AAAGCAGCCT TCAGGCTACT CTCTCTTGCN TCCTTGCTCT GGGGAAGAAC ACTCAAGCAG CTTTAGAAAA AGTCCACGTG
GCAAGGAATT GTGGTCTTTT GCCAACAGCC ATGTGAGTNA TCCATCTTAA GAGTGGNTCC TCCAGCCCCA GTAAAGTGTT
CAAATGACAG CAGCCCTGGC TAACATATTG ACTGCAACTT CATCAGGGAA CTTGAGCCAG AAAAACTCAG CTAACCTGCT
CCTAAACTTC TGACCCACAG AAATGGTGAG ATAATGAATG CTTGTTTTAA GCTGCTAAGN TCTGGGAATAA TTTGTTATTC
AGCAGTAGNA TAACTAATAC AANGCCACCC AAGNATCATT TCCC

SEO ID NO:869: (Length of Sequence = 383 Nucleotides)

AGGEACAGAC AAGTGAGCAT CACTACCAGA GCTCTGCCTC CTGTCAGATC AGTAGGGACT TTAGATTGTC ATAGGACCAT
GAACCCTGTG CATGCGAGGG ATGTGGGTTG CACACTCCTT ATGAGAATCT AATGCCTGAT GATCTGAGGT GGAACAGTTT
CATCCTGAAG CCATCCCTGT GCCCCTACCT GTGGAAAAAT TGTATTCCAT GAAACCAGTT TTTGGGGCCA AAAAGATTGA
GGACCGCTGC TCTATAAGAA ACTATTACTG AAATAAGGTA TAAAGTCTTT ATCTTACTTA TATTTATATC CTCTATGGTG
TCCACACACA AGGTGCTTTT TACACTTAAG TTGTTAAACT AAAATATTNC TTTAAACTTT AAT

SEC ID NO:870: (Length of Sequence = 409 Nucleutides)

CAGCTITICA AATCAAATAG AATCAATTT GCCTCCNCTN ATCTTACAAC TATTCTCTGG AGTAGGCAGG CTGGTTGAAC
TTCAAGAGAA GAGGCGTTCC TGAGAGCCTC CTTGGTGAGC TTGCACACCT GGGGGCCAGA TGINCTITIGC CCTCCTTGCA
AAGCCTCTCT AGTCTGGTGC CCAGAGAATA CAGCTTCAGC AGCAGCTCAC TTTGCTTTTIN AGTTTAGATG AGAAAAAACA
GCAAAATAGT CCATCAAGGA CAAATTCTTG CCAATGGATT TNCTTTTGCA AGGANGTTCA CCTTTGNNCC TCAAGCATCA
TCTTTAAGTT GTGAATGCCT GATGGGAGGT CCAGGTTGCN CTGTGGGAGG AGCTNGGGGT GCNTTCCAAA ACCACCTGGG
GACCAGTGG

SEO ID NO:871: (Length of Sequence = 290 Nucleotides)

TCTTTGCATT GATAGATTAG TTATTTATGC CAGINGICTC TGTCTGCCTT GTTTTGGTTT TNATTGCATT TGTTTGCTAG

AGATTCGTTT TAGTTTINCA ATTTCTTTCT CTGTACACCT GCCCCTCCCC CACCCCACCA CTGGGTTACT ACCTCCTTTT

TGGCACTACA TGATGCCTTA AGCCCAGGNT TGCCTAAGCT TTCATAACAG ATCCCAGCAC TGCTCATCCC CAGTGGTGGA

GGINCTAAAT GGGATAACCT GATAGTGTGG GAAGGCTGGC TGGGGGTTGT

SEO ID NO:872: (Length of Sequence = 313 Nucleotides)

AAAACAAAAC AAATTTAAAA GCACTCAAAA ATAACCTCAA AAAGAGACTA GTGAGTGTCC CTTAAGGAAA GCCCTTCCTG
CAGATTCCCA CAGAACTCCG CCCAGGCACT TAACCTCCAT CTCAGCTCTG GTACAGCTCA CTGCGTACAG TGTGTACCAA
ACTCTTATGC CTGGNCTGCT GATAAATTCT ATTTATCTCT GAACCTCAAT TTATTCAAAT CTAGTTATGA TATATCATAG
TGCTTGTAAAT TGTTGTAAAA TATAGANGTA ACATACAGCA TGTGTCTACA CGWTTAATAA ACTGGTGCTA ATT

SEO ID NO:873: (Length of Sequence = 300 Nucleotides)

TAGTAAACAA GTATTACTTC AACTGATACA ATGGCTACAT GACATCAAAG TACTATAAAT NATCAAAACT ATGGT.CAGA AAAATTACAA ATTGGTTGCA AAATACATTA TACTGCTACC ATTAAGAAAA AAGTGCTTTT NGITITCCTT TCTTTCTTTT TTTTTTTTTT TTTTGCCAGA AAAGTATTCT TNCAATATAG AAAATCCTAC ATGITACCCT GCATGIGGCT AGGNTATATC ATAACGGAGT TTGTACTGAG TCCTTCTGAT TTGCTGGATG AAGGCCTGAA AAATATATTA

SEO ID NO:874: (Length of Sequence = 364 Nucleotides)

GASTCATTEA TECTGAGAGA TIGINAAGAA TATACTGACA GCATCCTTGT AGCTGCATCA CAGTAAATCG GACTTCTGAA
TCAAGCAGCC CAGCCTAGCA GCTGATAAGA GTGAATGTAG GTGAGAAGCA TTACCTTATT CCTGTAACAA GAGAACTGTT
TTGTGATAAG TGAAACTAGG AATGTAGAAG AAGAATATC CTATGGCTAT TATAAAAGAN GAAGGACTTG CCTGANTGAC
TTGGTGGTGC ACCAGAAAAT AACTTTCAGA AGAATGCTTT CTGTTAAGCT GCTGCATTGT TCCTGGAGGA AATGTTATTT
CTAATGCATG TTATTTCTTC AAAAGATAGG ATAACAAAGA ATTG

<u>SEO ID NO:875:</u> (Length of Sequence = 341 Nucleotides)

ATCAGTCCAA TGCAGATTAG TATCACTTTG CTCATAAAAG AGAGTATAAA GGTTCTTGAA GTTTTTGAAA GGAGCGGCIN AGCTGACTGT TAAGGAAGCT ATCTTTTGTC TACAAGAAAT TTATACTTTT CCCTTCTAAA TTTCACAAAC AGAATATTAT TAGAGACAAC AGAATACATT TACAAAAAATG GCATCAGAAA TAATTGANTA CATTGTGTAC AATATCTNCT ATTAATGAAA TAAATGTATA TTTNATATGA TATTTGGTCT TTATGGGAAA ANTAATATAA TTNCCAATAT TCTAAGGNTG ANCAAAGNNG GTTTACAAAAT AGCATGCAAG G

SEO ID NO:876: (Length of Sequence = 327 Nucleotides)

CCAGATTICC ATGIGIGCAG TATTATAAGI TATCATGGAA CIATATGGIG GACGCAGACC TIGAGAACAA CCIAAATTAT
GGGGAGA

SEO ID NO:877: (Length of Sequence = 404 Nucleotides)

ATTIGGCTCC TGAATGITGC AGAAAACTGG TTTTGTACAC TGGGGAAGGA GAGAGTGAAG ACCCTCCAGT TGGTTCCTCA GTCAGCTCCG TTCTTGGTGT CGCTTTCTTG CAATTITTTT CCTCCCCTGG CCCTTCCTGT GAGGGTTAAA AGGGCCATCT CCAAGCCAGG TGGAGCCCCA ATCCCATTGA CCAAGAGGGC AAGGTATGGG GTCACCTTCT CATGGAAGCC CTCTTCCTAA AGGAGCCCAA AGGGGACACC TGCAGAGGGC GGGCTGTGAT CTGTGTGTGA ACTTCAACAA AATCTCAGGT TAGTATTTCT CCAATTTCAG TTGAACCACG ATGTGGTATA CACTACAAAA TGCAGATTCT GGTGCCCCTC TCCAAGAGTC GGCCTCAGTT

SEO ID NO:878: (Length of Sequence = 340 Nucleotides)

TGIACCECTE TECTETTESC ACGAACACCT TCAGGGACTE GAGCTGCTTT TATCCTTGGA AGAGTATTCC CAGTTGAAGC
TGAAAAGTAC AGCACAGTGC AGCTTTGGTT CATATTCAGT CATCTCAGGA GAACTTCAGA AGAGCTTGAG TAGGCCAAAT
NTTGAAGTTA AGTTTTCCAA TAATGTGACT TCTTAAAAGT TTTATTAAAG GGCAGGGGCA AATATTGGCA ATTAGTTGGC
AGTGGCCTGT TACGGTTGGG ATTGGTGGGG TGGGTTTAGG TAATTGTTTA GTTTATCNTT NGCAGATAAA CTCATGCCAG
AGAACTTTAA AGTCTTAGGA

SEQ ID NO:879: (Length of Sequence = 372 Nucleotides)

GAAAAGATAA TGAAGGAATA ATGCAAAGCT GAAGGCTGTG CCAGATGTAA GAAGTGATTA TGAAGGATAA AAGAAAAGGG
CTTTCCAAGC AGGGAAGAGG CATCAGAGAG AAAACCAATT GTTGAGCCAG TATTCTGTCA CAGGGACATT TGTCTTTNTC
CTTTAATGCC CAGTAAGGGT CTTCTCAGGT TCCATTAAAC ATGCAGAATC ACAAGACCCC CCCAAAGTTA CCATGGTGCC
AACGACTCA AAACAATACA GACAAGAAGC TCAGCTCATC AGGAAGGCTG CAGCAGGCAT ATGGGAACCA TCTTGCTCCA
CAAAGGACAG CTNAGATGGC AAAGATCCCT ACAAGGGTCC ATATCCACGG GG

SEO ID NO:880: (Length of Sequence = 405 Nucleotides)

GAGCIAGGCA CCAGGCATIC IGIGAGGCCC CAGGAGITTA AGAAATGAAT TAAATATICT CCCCIGCCCT CITIGAACTG
ACTCIAACGA GGAGACITAA GANITATITI GIAATCICTA GITATATIIN CIGAATITCA GAGCITAAAT ATTATACTIC
AACATGAGIC ACACCITTAT TIATATGITG GITTGICTCA GCTGIGITGT GGGTTGGTGG AAGGAGACCA CACATACATA
CACACAGAGI ACATACATGC TGITGATGIT ACACACATAC TCACACCCCA CAAAGTGAAG CICCATGCTC ATTITGITTA
ACAAAGACTA GAGAGGCCTT GCAGACAACA GCTACCIGGA GCAGGAACAA GTGAAGCATG TTTCTGAACC ATTITCTCAAG
TCACA

SEQ ID NO:881: (Length of Sequence = 336 Nucleotides)

GICTITINCAG TCAAAAGICC TIGAAGCIGG GACCCITIGA AAGICIGICA GITACATGIT GITGGIAGIG GCITGITTIG
ACCGITTCAA AAAAGGAAGA AAAAACCACI TAAATCATIT TICCTITCIC TITTCIACIG CAAAGGCCGA CGAGATIGAA
ATGATCATGA CGGACCITGA AAGGGCAAAC CAGAGGGCAG AGGIGGCTCA GAGAGAGGCG GAGACCITAA GGGAACAGCT
CTCATCGGCC AATCACTCCC TCCAGCTGGC CTCACAGATC CAGAAAGGCA CCAGACGTGG AGCAGGCCAT AGAGGTGCTG
ACCCGCTCCA GCCTAG

SEO ID NO:882: (Length of Sequence = 369 Nucleotides)

TGCCATTAGC AACACTGITC AGAIGAGATA ATTAAGAAAA AAAGCCAATT GAATGATTGA GIGAATGANT GATTGAAAAT
CTTTCCGAAG TTATAATAAT AATTGIGATT ATTGGGGTCA AAGCAAAACC ATTTTAGTCT AAAAGATTGT ACACTATACC
AACTTTTACC CAATTTGGAA TGAAAAATTA CATTTCCAAA CCATGTAGAA ATTCTGANCT CTTTGAAATA TTTCCTTTTG
TGGGAAAGAA CCAGAAATTC TTTGTCATAT GTACCCATTT ATCTTATTIN AGTTACCCAA CCAAAAGATA AAATAATATT
CTCAAAAGAGA TAATTGACTG GAGGAGTTTA AAGTGTTTAT AAATATTAG

SEO ID NO:883: (Length of Sequence = 369 Nucleotides)

CTGCCATAAG AATATCAGCC TGGGGGCAGT CCAGACGCAG CCCTTTGTCA TCCTTTCTGT TTGCCTAGTC TCAGCAGACT
GTGATCACAA GGCATTGTCT GTGGGGATTTT NCCTTTCCCT TTCTTGATCT CTCTTGTGGT TCTAGGTTGT TTGGTTGTTC
ATTGTTATGG TGGCTTTTNA TTTTAACGCC CCTTGAGCCC CATGATGCCT GGTGTCACCC TGTTCCTTTA CACTGTTGGG
CCAGGTGCTG CTTGTCCTTC TTAGGGGCATC ATCAATTGCA AATATTTCCT TTTGCTCCCT TTATGAAGAT GTTCTTATAC
CCTTGCTTTT CCATATTTTT TMTGGGCCAA GCAATGCCAT CINCTTTTA

SEO ID NO:884: (Length of Sequence = 327 Nucleotides)

AGITCATCIT TITCCAGAGG GGTCTGGGTG CCTTTAAAGG GGTGCAGGCC GAAGAAGATG GTGGCTTGGG GAAACTGGAG
CTGAACTTGG ATTCAGAACT CTGAGGCACC GGGATGGGGA TGGGAATAGG GACTGGCACA GGCAAGGGGA CGATTACAGG
ATACGGCACC AAGAGGGTGG CTGGTGGGAC CAGGGGGGAC AAGGGGGAGC TAAAAGGCTG TGGGGGCACA GGGGCATAGC
CAGGAGGAGG CTGACAGGGT GGGGGCCCGA GAGTGCCCTG GGAGGGAAAC AAATTCTTGA GCACAGCTTC AAATGGCAAA
GTGGGCT

SEO ID NO:885: (Length of Sequence = 380 Nucleotides)

CCAAAAGCTT ATCCACCATG ATCAAGTGGG CTTCATCCCT GGGATGCAAG GCTGGTTCAA TATATGCAAA TCAATAAATG
TAATCCAGCA TATAAACAGA ACCAAAGACA AAAACCACAT GATTATCTCA CTAGATGCAG AAAAGGCCTT TGACAAAATT
CAACAACCCT TCATGCTAAA AACTCTCAAT AAATTAGGTA TTGATGGGAT GTATCTCAAA ATAATAAGAN CTATCTATGA
CAAACCCACA GCCAATATCA TACTGAATGG GCAAAAACTG GAAGCATTCC CTTTGAAAAC TGGCACAAGG ACAGGGATGC
CCTCTCTCAC CACTCCTATT CAACATAGGT GTTTGGGAAG TTCTGGGCCA GGGGCAATTT

SEQ ID NO:886: (Length of Sequence = 400 Nucleotides)

GGGATGACTI TAAACGAGAG CTGGACAGTA TTACTCCAGA AGTCCTTCCT GGGTGGAAAG GAATGAGTGT TTCANACTTA
GCTGACAAGC TCTCTACTGA TGATCTGAAC TCCCTCATTG CTCATGCACA TCGTCGTATT GATCAGCTGA ACAGAGAGCT
GGCAGAACAG AAGGCCACCG AAAAGCAGCA CATCACGTTA GCCTTGGAGA AACAAAAGCT GGAAGAAAAG CGGGCATTTG
ACTCTGCAGT AGCAAAAGCA TTAGAACATC ACAGAAGTGA AATACAGGCT GAACAGGACA GAAAGATAGA AGAAGTCAGA
GATGCCATGG GAAAATGGAA ATGAGGAACC CAGCTTCGCC GACAGNAGGC TTGCCCACAC TGATTCACTT TCGGAGATGT

SEO ID NO:887: (Length of Sequence = 363 Nucleotides)

TAAAATAAAT GCTCTGGATG GGAGAAATGT GGAAGTTACT TTGGAACTGG ATAATAAGTA AAGGCTGAAA GAGTACTGAT
ATACATGCTA AATAAAACCA ATATTTCCCT GAATGANCTA TTCAAAGCAA TTCTGGTGGG TGTTAGACAG GACATAGAGA
CCTGGAGAAG AAGCTCCCAT TTCATAAAG AACACAAACA ATCATGTATA GAATGTTGGT AGAAATATGA ATGGTGAAGG
TCAATGTAAT GAAGTCTTAG ATGGGAATAA GANAGGTTAT TAGACAAGGG AGAAAAGGTA ATCCTTGTTA TAAAGTGGCA
AAGGAACTTG GCCTGAATTG TATTCATGIN CTAGTGCTTT CCT

SEO TO NO: 888 (Length of Sequence = 318 Nucleotides)

ATCHGCATG ATTAATACTA TIGGCCIGIN CCCITTATCC TCAGCTGGIT GIACAATICT TGAATGCTIT CITCTTCCCC TGAGGATGCT ATAGATATIG TCCIACTGIN ATCIGAAATN AGTCGITITG GAGAAGITTC TCCATCCAGA TACCTATAGA GICGGCTTT TITTTTTTTT TTTTTTTTTT ATATGCAAAC NCTCGCTGIA TTATTCAGGC TGATCTGAAT CTCCTGGNCT TTAGTGTTGT GACAGCTTTG GCCTCTTAAA ACTGCAGGTT TACAGGCATG AGCCACAGTG CCTGGCCATC AAGTAGCA

SEO ID NO:889: (Length of Sequence = 349 Nucleotides)

ACAGAAATCT ACGTAGACTT CINCCAAATG CCACATGAGA GCAGTGGCAG AATACAGAGA GACCGGCGAC CACAGCAAGG
AACTGTAACG GCCAACAGTC CTCAGGCATG CACGCCTGGG CCAACAGCAC AACGCAGAGT CGCTTCTTCT CAGTCCAGCA
ATTAAAAATGA CCATGGCAGC CACGGTTTCA TTAGGTTACT TTCAAAAAACC ACCTTTGCTG GAAAAAATGT TTGGTAGTTT
AATCTGCATA TACGGACAGT CATGCACCAC ATAATGATGT TTAGGTCAAC GATGGACCAC ATATTCAATG GGTAGTCCCC
TAAGGTTTAT AACCAGCATA TTTTTTTACT

SEO ID NO:890: (Length of Sequence = 341 Nucleotides)

GINGIAGGG TICGIAGGIA GGCCIAGIAG GIAGGGIIAG TAGGIAGGC TAGIAGGIAG GCCIAGIAGG TAGGGIICGI AGGIAGGGIT CGIAGGIAGG GITAGIAGGI AGGGIICGIA GGIAGGGITA GIAGGIAGGG TICGIAGGIA GGCCIAGIAG GIAGGCCIAG TAGGIAGGC TAGIAGGIAG GGITAGIAGT TAGNGCIAGI AGGIAGGCCI AGIAGGIAGG AGGGITCGIA GGIAGNGIIC GIAGGIAGGG TIAGIAGCCC GICINICCIT CITCCACCCI GGNINCITGI AAAACNITAT TITACAAGCA ATAGGAATIT G

SEO ID NO:891: (Length of Sequence = 344 Nucleotides)

GACCIGGCIG CGCACCAGGA CCGCNIGGAG CAGATCGCCG CCATIGCCCA GGAGCICAAC GAGCIGGATI ACIACGACIC CCACAAIGIC AACACCCGGI GCCAGAAGAT CIGIGACCAG IGGGACGCCC TCGGCICTCI GACACATAGI CGCAGGGAAG CCCTIGGAGAA AACAGAGAAG CAGCIGGAGG CCATCGACCA GCIGCACCIG GAATACGCCA AGCGCGCGC CCCCTICAAC AACIGGATGG AGAGCGCCCAT NGAGGACCIC CAGGACATGI TCATCGICCA TACCATCGAG GAGATTGAGG GCCIGATTCT CAGCCCATGA CCAGTTCAAG TCCA

SEO ID NO:892: (Length of Sequence = 367 Nucleotides)

CTGGGCAACA TGGTGAACCC CATCICTGCT AAAATACAAA AATTAGCTGG GTGTGGTAGT GCCTGCCTGT AATCCCAGCT ACTCGGGGAGG CTGAGGCAGG AGAATTGCTT GAACCTAGGA GGTGAGGTGG AGGTTGCAGT GAGCCAAGAT AAAAAAAATA TATATATATA TATATATATA TATATTTTNCN CTCCAATCCC ATCTAGGTTG CTGCAAATGC CATTATTTCA TTCTTCTTTA TGGCTGAGTA GTTTTCCACT GTGTATGTAT ACCACAGTTT ATCTTCTTGT TGATTGATGG GCGTTTGGGC TGGTTCCACA TTGTTGCCAG TTGCAAA

SEO ID NO:893: (Length of Sequence = 220 Nucleotides)

GCAAAATATT TATTCCAAGT TAGTTATTTT ATGCAGTAGT TTCCCCCTCG AGACTTGTGA TAACCACATC TTTTAAATCT GTAAATAATG TTATCCAAAAA AATCTTAATC TTTGAAATCT CACAAAAAATT TATATTTTAC AATCCACCCT GAATATCAAG GCTGCAAGAAN TAACACAACA TTTCCTATAT CCAAATATTT TACAGCTGTA CCCAAAAAAGG

SEO ID NO:894: (Length of Sequence = 313 Nucleotides)

GGGATTGGGA TIGITTGGCT CIGAGGCTGT TAAGTCTGGA CTGATGCTGG AAACTAATAT CAATGTTTAA CAGGGTTGAC
TGTCATTAAT GATGTGCCTA GCTGTGGGTA CAGATGCTTT GCACATTACT ACCCTCTATT CTCACAATCT TCCATGGGGG

ATGTATTAGA ATCCCCTTTT ATAAAGGATA AAGGTGAGGG TCAGAGAGAC TAGGAAGCCT GINCAGGGTG ACACAATACA AAGTGTCATA AATTGGGTTT GTACTCAGCC ACTCTGCTTA TTAACATCAG CAGTATGGTT AATGGGGTGA CCG

SEO ID NO:895: (Length of Sequence = 304 Nucleotides)

GGICTAGATT CAGITATGAA TGTAGGCATT AGITAAAATT AACAAGATGC AGAGTATTAA TITICTTAAGA CAACAAGTG
ATTICIGIAA GTTIGAGCCC TATGIGGAAA GCATTGIGGA ATCITAACCT TTITIGTACAC ACICTIGIGG GACGTATCAT
ATAAATGICA GCACTAAGTA ATGICTTGIT TGTGGCIGAA TATTTINCGI AGATGITTIT GAAGTTGACA TGACTTACGT
GCATTTAAAT ATATATTGCC ATCCCTTAGT TTGTAATTAA GGATTINGGA ATATGGGTTG TGGG

SEO ID NO:896: (Length of Sequence = 337 Nucleotides)

SEO ID NO:897: (Length of Sequence = 316 Nucleotides)

NATURACCINA GGICAGGAGI TONAAACCAG COTGGCCAAC ATGGCAAAAC COCGINICTA CTAAAAATAC AAAANINAGC CAGGTGTGGT GGTATGTGCC TGTAATTCCA GCTACTCAGG AGGCTGAGGC AGGAGANICA CTTGAACAGG GAGGTGGAGG TOGCAGTGAG COGAGGTTGC AGTGAGCCGA GATTGCACCA CTGCACTCCA GCCTGGGCGA CTNAGCGAGA CCCTGCCTCA AATAAAGAA TAAATAANTA AAGTGGGGAA GTTAGTGGTT TCTGGTGTAT TCAGAGTTGT GTACCCATCA CCCTGG

SEO ID NO:898: (Length of Sequence = 200 Nucleotides)

GAGATCTGGG GCTGGGGTAT GGATGATGGG GGGAAGGGCG GTCGCCTCTG CCACTGTCAG GGACCAGCCG GCCAACGCCC ACCCGTAAAG GTGTCTAAAA ANTTNAGCTT TTCACCCACC TGCCCCTTTC TTTCAATCCC ACGCTGTTTC CTTTCAAAGT TCTGGGAGGA CGAACTCACC GAGGCGAGAA GTNTAACATT

SEO ID NO:899: (Length of Sequence = 264 Nucleotides)

CTCTGTAAGT TAGCGGTCAT GTTTTCAGCC CCATGCAAAG GCGCAANACN TCAGACAGCG TGGTTCTMIN AACATNAGTG
TGTGGTGCCT CCCAGGAGCA GGGATTTNAG CNAGGCTGCT GACACATAAA CACACCCCCA CCTCCAGAAG CAGAGGAGAG
GAGCCCAGGG CCAGGGCAGG TAGCTCAGCA AGGACCCAGC ATGCTNCAGG TGGGGCCAGT AAGAGTCACT TCTCCAGCNA
GGGTCAGAGA GGAGAGAGGC AAGA

SEO ID NO:900: (Length of Sequence = 265 Nucleotides)

GCAAATGGTA AAAAACCAAG TCAGCAGAAG AAATTAGAGG AGAGACCAGT TAATAAATGT AGTGATCAAA TAAAGCTAAA
AAATACCACT GACAAAAAGA ATAATGAAAA TCGAGAGTCT GAAAAGAAAG GACAGAGAAC AAGTACATTT CAAATAAATG
GAAAAGATAA TAAACCCNAA ATATATTTGA NAGGTGAATG CTTGAAAGAA ATTTCTGAGA GTAGAGTAGT AAGTGGTAAT
GTTGAACCAA AGGTTAATAA TATAA

SEO ID NO:901: (Length of Sequence = 381 Nucleotides)

CTTCTGTGCA TATAAAAGAG AACAGTCTGG NCACTTGAAA ACAGACACCT TCTXGTTTTC AATGTGTTGG TCAAAGTGGC GATACACCAA GGTTTGCAGG GTGAACACAG TGTCGCCACXT GGAACACTTA TATATATTT TREGTTCTCC TATCTTGATG

CCAGGATGCT GTGTGTAGGC GTGGGAATNT GTGCTTGGGG CAGACTTAAA CGCCATTGGA CAAATAGGAC ACTTGTAGAA GACTTCACAG TGAGAACCTT GAATNTAAGA CTTCAGAGCA GCCACATCAG AGTACACAAC CATTGCAAAT GCACCACATC GAAAACCAAC TCTCCTCGTG TAGTNCAGAC AGTTCTTTGT GGCGTGGGGT CTNGGAAGGT G

SEO ID NO:902: (Length of Sequence = 331 Nucleotides)

GGITGCCAGT GATCTCCTTT CTTATCACCT ATAGACAGCT TGCCTACAGG AAAAAAGAAA GCCAAACACA GACAAGCAGT ATGAGAGATACA ATGAGCGCCC TTGGGCCATT AAAATATGAT TGINIGCCCA AGGTCGCCTG GNCTGCAAAC AGCTCTCCAG AACCTGCAGC CAGCACAGAC CAAAGTCAGG TTTGINICCT CTTCTGTTGA TGAACAAAGG TTGATTCCAT ATCGTGGCTA TTGTGAAATAG TGGCAGTAAAA CATGGCAGTA TTGTATGAAA ATATNACAGA TTAGACCCTT TAAATATGTG CACTATGGNT GATCTATCAA A

SEO ID NO:903: (Length of Sequence = 389 Nucleotides)

AGCAATACTA AACATAAATG TAAATTGGGC TAAATGCTCC CAATTAAAAG ACACAGAGTG GCAAGCTAGA TAAGGAACCA
AGAGCCATTG GTATGCTGTC TTCAAGAGAC TCATCTCACA TGCAATGACA CACATAGACT CAAAATAATG AGATGGAGGA
ACATTTACCA AGCAAATAGA NAACAACAAA AAATATTTCT AATAGATTTC TGCTTTTAAT AATGAAATAT GTCAAACTCC
TATAAAAACT ATATGTAGGA AATATAAANG TTTATATATA ATTCATGTAA TGGNTAATAG TAACTGAATA GCTAGTATTG
AATAACCAAG CTTCCTTTTG TTGTTTTGNA CATTGGNANA ATTGAACATG CTTAAAGGTA TTGGGAAGG

SEO ID NO: 904: (Length of Sequence = 285 Nucleotides)

AAATCAAGGA CCGGTTAGAT AGATGATGGG CTAGGCAGGT GGGGGAAGAC AGAGCTCACT GCCCTNTGGG GTCTCTGTGG GGCCAGCCCC TNATGCCCAT GTGGCCACIN ATGCCCAGCT TCCCCCAACA CCCCANCACA GGCCCAGGTC AATATTACAA AAGTGAACAA ATGCAACCTG TTTCTGCTTT NACAAATGAC ATGTCTCCAT CCCCGGCCAG CAGGGGTAGG GGAGGNCGGT TGAAAGTGNC ACTCCGGTTA AAAAGGCAAC AACTTTTATA AAATG

SEO ID NO:905: (Length of Sequence = 374 Nucleotides)

GAAGCAAAAA GITGAACCIT TIAAAGIGCT GAACACAAAT CCAAATTCGA ATGGITCAAG CAGCCGIGAA ATCGCTCTTC
ATAAAGIGGG CITAATTCTC TAGITTAAGT TCTITTGATG GAATGAATTA ATTAATGIGT CAGGIGGCTT ATTIGIGGAT
GCCATGATTG ATGATGITCA TITTAAGCTC TIACCIATAG TACAAGIACA TGATGCIACT GAATATTTTT TCCACTIGGA
AACTGTGAGC TGGGTTGITG CATTAAAACA CACATACANA CANAATCANN AAACACTGCG GACTITTCAC TCAAGCTGGG
TCTTTTCTTC CCCAGTGGTA AGGGCAAATC CTGGCCTANC TAACCAACAC CCAC

SEO ID NO:906: (Length of Sequence = 375 Nucleotides)

CTGACTGAAA GGCTCTTTCC AGCTCCAACA CATGAAGGIT CCATAATTIT CCCCAAATGI CTGCCGCTCT GAAAACTTCA
ACTATCTTAA TATTIGIGAC ATTTATGCCT GTGTATGGCA ATCTGATGGT AAAAGGAGCC ATATGIAAAT AATAACTGAA
ACTTTGTCAA AATAATGITA AGGAAACATA ATTAGCAAAG CAATATATAA TINCAAGTCC ACTGATTTAG AGAATCAGAA
GTAACANITA GAATCAGAAA TAACAACTAT CTGGCAGGGA TGGAAAAAATG AGAGCAGATA TAAAAGGTGT ACCCCAACCC
CTGACCCCAC TGCCCATTTG GGTGTGCACT ATGINITTCC AATATTAATA TCTTT

SEQ ID NO:907: (Length of Sequence = 390 Nucleotides)

GIGCIGACIT CAGCAGCCCI CIGAAAGGCC CCITCCATAA GCIGGGAAAG TATGAICAIG GITTCATCAI CCITGITGGI TATTACTICA AGGITGACCA ATCIGAAAGC TCIGIGIGAA GAAGGGGACT GAGIGGCIGI GAATGAIGAG ACCGITGITT AAAAGCAAGC CITAGCCICA GGICCGGAAG AAGCAACCIC ACCGIGGC TITACCATAG CACCACCIGC AGGIATACCAG GAATAGAGAA CCCAGCTGAG CGACTCATGC TINACCAAAA ATACCCAGAG CAGTGTGTCT CTACCTTTTT AAGCCCATGC
TCACTAGTGG GGAAAACAAT TITACCCCCC TGTATTTAAA TATGGGGATT TCAAGGCAAA CAAAAGCATT

SEO ID NO:908: (Length of Sequence = 207 Nucleotides)

CTTGCATACA GGTGGTAAGT TATTACATTA TTTCINCCTC CTGTCTACCT GCAGTTGGTT TTATGAGGGG CGTTAGTACA CTTCCCAAAG GGCTTGCCCG CAGGTTNAGA GGTGCACATT GAACTCCCTC ACCAGGCAGA TGGGAAGTGT GGCCATGAGA GAGAGCTTCA GGGGACCTNG GNTTATNACA TCGCTGGGCC AGGANAT

SEO ID NO:909: (Length of Sequence = 339 Nucleotides)

GCAAGAGAAC CIGATATAAT AICIATAAAT TITGATICCC TGGGGTATAA CAAGTAAATA AITITTAAAT GGIGCITAGC AAGATGGIT CAIGGAAAAT GAAGCAATTA TGGCITGANT TIATATGIAC AATATTTATT GICTTAATIT TAATTTAAAA CGAATGACAT GICTCTTTT TIAAAAAAAG TCTTCTTTTA AAGATCTTGI AGITGATGIG AIGAGCTATG CACIGCTAAA TATTTAATCCA CACATAAATA TITGANAAGG AATATGGNAT AGICATGGGA TGTAGTITCA TCTCAGTGCT CCATGGAGGG AGIGITTTCA CCCTCCTCT

SEO ID NO:910: (Length of Sequence = 372 Nucleotides)

CTCAACTGCC ACTCACCTAT CTACCATCCA CTACCCANIN ACCACCCACC ATGACCCACC ATTTGCCATC TACCCATCCA
TCCATTCTAT AAATAATTAG TAAGCACTTA ATGCATGCTA GGTATTATTT TAGGCACCAG TAAGACAATC ATGGGNAAAA
AAGACAGACA ACCCCCGACC CTCCCATCCT CAGGGAGCTC TATTCCAGTG AGAACAATCA ATGTGCTAGA TTGTGAAGGT
CATCAGTGCT TGCTGCCCGT GTAAGACTGA GGTTCCCAGG CCCGAGGACC AGNCTGGGCC AGGGCTTCCC AGGGGTCTNC
T. ...GGGGGA CTCTCAGGAG TCCAGCTGCT GCCCCTTAGC TNAGCACCTG GG

SEO ID NO:911: (Length of Sequence = 377 Nucleotides)

GAACTICAAA AAAAAAAAA AAGAGGAGIC ATAATAAATA TIINACIGIC TAGICAACC: AATITATGAA GCCIGATTAT
CTAGCINAGC CICCGGAGAT TGCTACCGGA AATCTCCCCA GATGITCCCC CTTCTAACCC AACINICCAC TGINIGGCAG
GAAGGCAGCC GGGCATCIGC ATTCCGGAAG CCCAGCTGCT TGGGAAGAGA GAGGGAGCGG CCTGCACGIN ACTCAACAGC
CCTGCCTGCT AACCAGTTAA CCAGTTCTCA GTTGGGTTCA CGGACCCATG AGCGACCCAG CTTTCTTCCC CTCAGGTTGA
TATTGTGCTC CAAGCINGGG GATGCCCCGG GGGACTATGT GGAGGGAGAG TTCCTTA

SEO ID NO:912: (Length of Sequence = 370 Nucleotides)

ACAATCIACT TGCTACAGAA TCAGGATGIA TTINCCTATI TATAATAAAC TACAGAAGGI AGATTICAAA GGTAATGGCT GTTATGGAAA CCIACITGAG GITGICIGCT AAAACCAACT CAGTGIGCAA AGCGAAATAC ATTINCIACT TCAATAGCTC CTCATACIGC ATCIGICIGI AGAGTTATT TCAGTAAAAC TGTTTACTAT TTCATGATGA GIAGCTAGAA TTAAAGCATT AAGIAGCTIG AGAAAATAAT CIATATAAAT CTTTATATCC TACATATGGC TATAAAAAATA AATTTATAAT TTTAAAAAATT GTTTTAAATA AACATTTATT TTTTACCCTA CCAAAGTAAA GGGIATACAG

SEO ID NO:913: (Length of Sequence = 313 Nucleotides)

GTATCIGGTT GCCACATCCA AGAAGAACGC GIGCNINICG CTGGTCTTIN CTTTCCTCTA TAAGGTGGTG CAGGINTTIT
CCGAGTACTT CAAGGAGCTG GAGGAGGAGA GCATCCGGGA CAACTTINIT ATCATCTACG AGCTGCTGGA CGAGCTCATG
GACTTCGGCT ACCCCCAGAC CACCGACAGC AAGATCCTGC AGGAGTACAT CACTCAGGAA GGCCACAAGC TGGAAACAGG
GGCCCCGCGG CCACCAGCCA CCGINACCAA CGCGGTGTCC TGGNGGINCG AAGGCATCAA GTATCGGAAG AAT

SEO ID NO:914: (Length of Sequence = 389 Nucleotides)

TTACAGGCGC CIGCCACCAT GCCCGGCTAA TITINAGIAG AGAIGAGGIT TCACCATGIT GGCCAGGCIG GICICAAACT
CCIGACCICT GGIGATCIGC CCACCICAGC CICCCAAAGI GITGGGATTA CAGGCGIGAG CGACCGIGCC TGGCCITCIC
CACIGITTIC ATAGIGAAGA AAGGACACCC AAATTITGAT CIGGITCAGC TATICACIAT TCIAICCIGI GIGGICITAA
GCAAGITACA TAACITGCCT ATATCICAGT TTACITAGCT ATAATATAAA TTAAATTGGT CAAATGITCT CIAAAGICIT
ACTAGITACC AGIGITCCAT GGGCCCAACA GCATCITACAT TACCIGAGGA GGCTGGIAGG AAATGCAGG

SEO ID NO:915: (Length of Sequence = 328 Nucleotides)

CNCCAGCAGA TITINATIAG ATGGAAGATA ACAAGCATTA CCNCATAGGT AAGTGGTAAG AAATGGCAAG TACAGCCAAG CCACAGAGGA GTGAGGACAT TACTGGCTAT GGGAATGGGT ACTTATGAAA TCTAAGGGTT GGGTCTCCTG ATGAACTCTA ACTTACCCAGT AAGCTCTTCT CTTTGGCACT CAATATGACC NCTGCTGGCA TGAAAGGGNC TACAGTAGCT ACTTTCAACT TGGCCAACAG TTCTTCCAGT TCTGGTGGAG CTTTGAATCG TCCCTTTGAA GTCTTTCTTC AGNTGGTGCT CCTTCAACTT GACAAGTC

SEO ID NO:916: (Length of Sequence = 365 Nucleotides)

CAACTICAAG GIGCIGCAAG AGCTITCAAG AAGATGGGIG TIGACAAAAT CATTCCIGIA GAGAAATTAG TGAAAGGAAA
ATTCCAAGAT AATTTINAGI TIATTCAGIG GITTAAGAAA TINITTGACG CAAACTATGA TGGAAAGGAT TACAACCTC
TNCTGGCGCG GCAGGGCCAG GACGTAGCGC CACCTCCTAA CCCAGTICCA CAGAGGACGI CCCCACAGG CCCAAAAAAC
ATGCAGACCT CIGGCCGCCT GAGCAATGIG GCCCCCCCCT GCATTCTCCG GAAGANICCT CCATCAGCCC GAAATGGCGG
CCATGAGACT TGATGCCCAA ATTCTTTGAA CTCAAACCAA CAGCT

SEO ID NO:917: (Length of Sequence = 400 Nucleotides)

GCATTATTIA TIGAAAACIA TGIATTITIT TGIAAAAACC TGATCACATA GAGAATATCA GIGGCTATAC CCICTCIGGG
CATCAGITTC CTCATCIGIA AAGIGGGGAT AATCACAGCC CCCACCACAG TGGGCTTCAG GGAGGAATAA ATGCATTAAC
ACATGGCAAG TCAATTAGGA CGGIGCCTGA CAGGCTGTCA GCGCCCAAGG TTGTGACTIT TGCTTTTCCT ATTGCTACTC
TGCAACCAAC TTTAGATAGT GGIAGANTAA TCAGGAGGCC CTCTTGAATG GGATATTTTG CACAGAAGAG GTCCCAGACC
GAGTGTGTGT GACATGGGAG CAGAAGACCC GGGGTTNAG CCAGGCTCTG CCACTCATAC GGTGTACAAT TTTCAAAGGG

SEO ID NO:918: (Length of Sequence = 348 Nucleotides)

CHATTGCACA TGGIAACICI GICATACATC TATAAAGCCI AGIAGCIGIA TIGGGIGAGA TGAAAAAAAC TGCTTATATT
CCACAGCAAC ATAATTACAA ATAAGITTTA ACCIATIAAA GIACAGAGIC TCICTCATCA CTITCAAAGC AGGACCCTAC
TTACCAATAA TICATAGCAT ACCICCCCIT ATTITAAAAC TCATATGATA GCIGATTTCC TAACIGTAGC AATCAGGATT
CTTAGAAAGA TICGAAACIG AATTAGCTA ACTAAGGAAG CGGATTCAT TAAAAATATT GGGITAGITT ACAGGAATCA
GTAGIGGAGG AACCAGGGIT GCATAAAA

SEO ID NO:919: (Length of Sequence = 345 Nucleotides)

GGGATGACTT TAAACGAGAG CTGGACAGTA TTACTCCAGA AGTCCTTCCT GGGTGGAAAG GAATGAGTGT TTCANACTTA
GCTGACAAGC TCTCTACTGA TGATCTGAAC TCCCTCATTG CTCATGCACA TCGTCGTATT GATCAGCTGA ACAGAGAGCT
GGCAGAACAG AAGGCCACCG AAAAGCAGCA CATCACGTTA GCCTTGGAGA AACAAAAGCT GGAAGAAAAG CGGGCATTTG
ACTCTGCAGT AGCAAAAGCA TTAGAACATC ACAGAAGTGA AATNCAGGCT TGAACAGGAC AGAAAAGATA GAAGGAAGTC
AGAGGATNCC ATGGGAAAAT GAAAT

SEO ID NO:920: (Length of Sequence = 299 Nucleotides)

CCCAGGIACT CAGGGAAGGG GCAGGAGAAC CACITGAGCC AAGGAGITCA AGGCIGCAGT GAGCIGIGAT CACACCACIG CATTCCAGCC AGGACAACAG AGIGACATCC TGICICAAAA ATAAATAANT TITITAATGA TGAAACTAAC TAAGGIACIG AGGAGGIAAG ATATTICCCC ACGGIAAGTC ATTCAGAAAC TAAATGIGAA AAACCAAAAG AAGCCTCTGG GGITAGIATT CCCAGICTCC TTGICIGCCC AGGACCCCAC ATTTGIGTAA GITGCIAATT GCACAAGGG

SEO ID NO:921: (Length of Sequence = 234 Nucleotides)

ATGAAGCAGA GGCAACCAAC AGAAATTGAC ATCAGAAACT CTGCTGGNTC CCCACCAGCA TGCTACCGAT GANTCCTGCT CTCTTTCAGA TGAAATTTTA TTTTTTTINCC AATAAGGCCA GCCCTACCCT GGAATCTGGA ACCANITCTG GCCCAGGGTA GAAAGGCTAC CAAGCACCTA TGGTAGAAGC CCTGGTGTCC AGGNATGCCT TGGNCCTTAT TATTGACCTT CTCT

SEO ID NO:922: (Length of Sequence = 328 Nucleotides)

TAGCAGGGIT ACTGGCCTTG GCTGCGGCCA AGGGAAAACT CTGCAGGCCC TATTACTTGG CGGCCTTTAA CTCTTATAGA
ATTGGGAGAG AACACTGACA AAAGCGAGGA CATGATTTIN CGGTTACAAA TNATTTTCCT TGCTTGCTTT CTTCTCACCC
TTTTNAATTT TCCTTTTCIN CTTTTCCTGT CTATCTTACC TTCCCTCCGT GATCCCTGCC AGCCCCTCCT TTCTTATTAT
AGCTGATCAT GGCAGTATTG TTTTTTNCTG GGTAAAAATC AGAGTGGGAT TTAGAGAAAG CTTAGCAGGC CTAGCATGAG
GGCCTTAG

SEO ID NO:923: (Length of Sequence = 371 Nucleotides)

CAGGAAACCT ACTGTGAAAA TGCAGAAAAA CAACAG: CAA AATTGATTGT TGACTCAATA TGATATATAG TTCAAATGTA
AACAAATGCT TGINAGCATT CCACATCACT GAAGGAAAAA AAGTAAGTTA TTATTTCCAA TGITGGGAGT TAGGTTGCTA
TAAGCTTATG ANCACACACT TTCAGTGAAT TTATGTAGAA TCGGAAGCAC TTCATTCTCC CCTCACCACA CATCACCCCC
TTGCTCCTCC TCGACACGTG CAAAATGATA GGGCATGGTA GGGGTTGTAG TGAAATNGAG AAGGCATGCC CCATCTCAAG
AAACAGGGTG GACCAGCCAC AGCTTTCAGC TCCANT: TT GATACAGGAA T

SEO ID NO:924: (Length of Sequence = ucleotides)

AGENGOGGG TITOTIGAT ACCITIACIT TINAG AGENGOGGG TITOTIGAGG CGACTGAGGG ACTGGAGAAG GCTACGGGG TCCTCGCCCT GCCAGGGCAA TCCTT. CTCTTNATCA TITOGITATG CAAATCGCGG TAAAGTTTTT CCGAAGGGGG TGCTGGCTCC TCTTGGCAGC TCTTCTTAGT GACTTTGGGC ACCAGGGCTG CTCATACCTG CAGCCTTTTC GGCCCTCTNG GCCCGCAGGCC GTCCGGCCTC CCGAAGCACT GCCATGGCCC GGAATAGCAG CCCCNGAGCA AGG

SEO ID NO: 925: (Length of Sequence = 317 Nucleotides)

AATGCTTTAT GATCAACTIG CCATAGGACT GATGGATTAA CCAGIGTICG GCITTATTIG AAGICTATGC CCIGCACAGC
TCTIGTATGT ATTINAGATG CTAGAAGITT TTINAGCATG TNATGGGGA TTCTIGTITG AATICTAGGA ACCITGICCA
ACTIGGTTCT TTITCAAGGT TGTTTTGGGT ATTCTGGGIC CCTTGCTTTT CCATATGNAT TINAGGATCA GCTTGTCAAT
ATCTGCAAAA AAAAAATCAG CTATATTTTG ATAGAGNITT GTATTGCATC TTTAGGANTG GTTTGTTGAG TATTGCC

SEQ ID NO: 926: (Length of Sequence = 247 Nucleotides)

GITATTCATA CCACAGCATT TAAAAAGCAA TCCGCAAGIN ATAAAAAAAA AAAAAAAAA ATGATGIGAC ATATCCATTG
CCTGANTIGC CTCTTTTGTA AGCCAGINIT GGGATTATAG CAGAGGAGTA GCAGAAATAA NIATATTCAG ACACAAACAT
ATAGATATAA TAATATCCAA CCNCTTTATA TGATTTAGGG TCTCGTTAAA A'GGTTACCA TTTGCTTCTC CTAAAANITA
TATAAAAT

SEO ID NO:927: (Length of Sequence = 286 Nucleotides)

GECTGTCATG AGAATCACIT GAACCCGGGA GGCGGAGGIT GCAGTGAGCT GAGATCATGG CACTGCACCC TAGCCTAGGT
GACACAGCAC AAAAAAAANC AATGITCCAC AAGTCAAAAA TIGINITCAG GGAGTAGAAA AGTAGTAGGC TAGGTATCAA
AGGGTATGAA TGACTAAGTT CCTTCTATAA TATATTGACT ATAGGTTAGG AGATACACTT TCAGTTCCTG TTTTTNGTAG
ATCTCCCAAT GATCTGTCAT TTAAGAGTAC ACACGATGAG TGGAAA

SEQ ID NO:928: (Length of Sequence = 349 Nucleotides)

CTIGITTAAC CAGIATTIAT TGCACATGGT TITGITATCT ATTGCATGIG GIAAATTACC CCATACITTIG CTICITAAAG CATTAGACAT TITCIGIAGGT TAAGAATTCA GAAGCAGCTT AGCIGAGCAG TICITGCICA AGGICTGICA TGAGGTTGCA GICAAGGAC TGCCACAGGC TGCAGTCATC TGAAGGCCTG ATTGGGGCTG GAAGACTCCC TTTCCAGATG GCTCCCTCAC AGGICTGGCA TGTCAAAGCT GGATTGTTGG CAGGGGACCT CCATTCTTCC CCACATGGGC ATCTCCATAG GCTGTTTGAC ATGGCAGATN GCTTCCTCCA GCAACTGGG

SEO ID NO:929: (Length of Sequence = 395 Nucleotides)

AGAGGAGGA GCAGCCACCC CCAAGAAGAC TGTACCTAAA AAGCAAGTTG TGGCCAAGGC CCCAGTGAAA GCAGCTACCA CCCCTACCCG GAAGAGTCT AGCAGTGAGG ATTCCTCCAG TGACGAGGAA GAGGAGCAAA AAAAACCCAT GAAAAATAAA CCAGGTCCCT ACAGTTCAGT CCCCCCGCCT TCTGCTCCCC CACCAAGAA GTCTCTGGGA ACCCAGCCTC CCAAGAAGGC TGTGGGAGGAA CAGCACCTTA ACCCCCCAACT AAGGCCAGTA GTCTCTAAAG CAACCACTAA ACCACCTTCA GCAAAGAAAG CAGCAGAGGA CTCTT

SEO ID NO:930: (Length of Sequence = 214 Mucleotides)

ATCCAACAAT GACALCICCT CITCGGACAA TATTGGCACT CCATTCAAAC CITGITICAG GICAGICCGC ACTTCATCAT

CTCCCAATTT GICCLAAACA TACTGTAGCT CAAGTACAGT TITTAAACGT TICTGTNCAG CITCITCTCT CATAAGCTGC

TCCCGACGTG CTGTCTTCTT NATTGTTTTC TGAATATCTT GACTTAGTGC CATG

SEO ID NO:931: (Length of Sequence = 245 Mucleotides)

GAAAGINTIC ACAAACATGA TGCTTATCTA ATAAAATATC ACTGAGCAAT AAGGAGAAAT ATTTTAAATA GATTTGAAGT

TGTGAACAAA TAATTTAGAG TCCAAAGAGG ANAAAGANAA TTAACTCTGT TTTTNATCCC TAGAACTCAG AAACTTTACT

GGATTGGTCA ACAAAGACAA ACTTTTTATT GTATAAAACA GTAGANTTCA TGGAAGGGAT AATNCTTTTG GAACAGGCTT

CTCGG

SEO ID NO:932: (Length of Sequence = 303 Nucleotides)

CATATTOGGG GCCCAATATA AAGCAAAGCT GGAAGAAGGG ATGATCCATG TATTINIGGG GATGGGATAT GGACAGGGAA

ATAGTGTTCC AACTCCATGC TGAGTGTTGT TTTGAATTGT AATGTGAAGT TGCCACCATA CCAGGGCTAT GACTGTNTAC

GATGTCTCAC CCTTGTAGGC TAGTAGCTTT GCAGTGGGAA AAGATGACAG GGCCACTTGT CCAGGGCATT CAGGTAATAA

AGTCCCTGAG CTCCAAGTTG CTAGATCTAA GGAAGTATTT TTCCCTTCAT GTCAAAGATG GGG

SEO ID NO:933: (Length of Sequence = 186 Nucleotides)
CTCTTTTGGG CTG-ITCANA TCTCCGGCGA ATTGAAAGCA GTGATCTCTC AGGTGCTAAC CGGNATAGTA TTAGAAGACT
CCAATATCTT GCACCTGTG GGACTTACTG TATTLATCTT TGTTTTGTTT CATTTGCTTT TGGGTTCTTG GTCATGAGGT
TTTGCCTAAG CCAATGTCTT CAAGGG

SEO ID NO:934: (Length of Sequence = 336 Nucleotides)

GGGAAAACGT ATCAGCACAT GAAATACCTT GTAACTATTT CATTTATATA ATTTGCTACG TGTTCTTTGC AACATAGTGA
AAAATAATCA TGTCTGATGT TTAGTAGGCA CATAATAAAT AGTAATGGAA TGAATGGTTG TATATTTAGA GAGCCATGCT
GAAAGGTTAA ATAGCAAAAT ATGACTACTT GGAGAATAAT GTTAAATTGT CAAGGAGAGT AGTGTTATAT GAATACTCAG
ATGGATGGAT ATATAGANAA TGAGAAAAGC GACAGAAGGA ACTTAAAGAG NTTTTAAAAA TAGCTTTGTC TAAAGATTAA
AAATTAAAGG TTCTAA

SEO ID NO:935: (Length of Sequence = 383 Nucleotides)

AGGTAAGAAA ACTGCTGAGT GGGCTCCTTG TACCAGCACC AACCAGCAGC CCTTGACAGC ATAGATGGA TGAGTGTAAG
GGCTATCCTT AGCATAAGGG AAAGACGGTT ATAAGCTGAG AAGATTGAAA GAAGAATGGA GCCACAAAGA GAATAGCATA
AATAACAAGA AGGAAACATG AAGAACAAGC ACTTAAGATA TTAACTTTCA GTCTTTCTCC ATTTCTTGAT GTCTAATGAG
GCAAAATAAC TGGGCAAGGA CCACCAAGAT GAAGAAGTTA AATAAAATGT CACAATGAAA TTAAGGTGCA ATAATACAAC
TGTTGACTGA CTTTCCAAAA CCACGGTGAT CGGTAGAGTA TCATCAATGT TACCGAGGAT TTT

SEO ID NO:936: (Length of Sequence = 204 Nucleotides)

GAAGCTGTGC CACCCTTCTN AACTTTNATG AGCTGCCTNA GCCGCCAGCC ACCTTCTGTN ACCCAGAGGA AGTGGAAGGG GAGCCCCTGG ATGCCCCCCA NACCCCAACT CTGCCCTCAG CCCTTGAGGA GCTGGAGCAA GAGCAGGAGC CGGAGCCCCA CCTGCTAACC AATNGCGAGA CCACCCAGAA GGAGGGGACC CAGG

SEO ID NO:937: (Length of Sequence = 386 Nucleotides)

CTAACTAAAT AAGGGTTGCC AGATAAAGTA CAGAAGGCCC AGITAAACTT GAAATGCATA TGANCAAGAA ATATATTINA GTATGANTAT GTCTCATGCA ATATTTGGGA CATAATTATG CTAAAGAAAG TATTCACAGT TTINCCAACA TTCAAATTGG AATGATGTC CTGTATTTIN ATTTGCTAAA ATGGGCAACC CTAAGCTGGT ATCTCTACAG TTACATACAC TTACCAACCC CACCCATTCA TACTGGTCCA AGTTACACCC CAAAAGAGGG CAGAAACAGA ATCTGAACAA GCTCAAGTTT NGAGGGCAAA AATGTTTCAT TCTGCCTTCT GGATTNCTGT ATGAAGACTT TTGTTGTGAA AGATATGAAT AGAACC

SEO ID NO:938: (Length of Sequence = 349 Nucleotides)

GACACTITCA GAATTAAGAA GCCITGCCCT CITTGOGTGT CITCACAATT GINITAAGIC TATTATAGTA TICATTITAG
TITGAAAGCA ATAAATACAA TATTAGTACA AGCACACTGT CAAGAAATCC CTAGAATATG GCTCCTCTGA AGGITGACAT
GOGTCTGCCT CGCATGTATC TITTCATCTC CAGCATCCAG ATCAGAGTCA ACAACAACAA CTCTACAAAT ATCAGGCTTC
TIGGTGGGAAA GAAATCTGGA CATTITINCT ATGAAAAAAA AGTTAGGTTA CATGGCATTA ATATTITTGC TAGACTTAAC
CTACAGAAAA TGTTTCAAGC TITATAAAAA

SEO ID NO:939: (Length of Sequence = 374 Nucleotides)

GARATARAGO CICACAAGAA ATAAGGIGOT TATGGIGITA AGITACAATG GAAAATAATO AATGGCATTT GTATGCATGO
TGCATGIGIG ATGIAGATCA GITCATAGGA GATGGGGCAA CAAATAAATA TCACCATGGG GATGIGATCA TCAAAACCCA
GGCIGIGGAA AACIGICAGI CAAGITTCIT CAACATATIG CAAGAAAAAT ATGATGGCIT GAAAATCTAT AGATGAAGCA
ATTITAACAAA CCTACCAATC TCATITAATC TTGATTACIT TTAAAAAAAGA ATTAAAAAGA TGACAGAGAA AGGGTTTAAA
AATTITGTAAG ACACGGCTGG ACGCGIGGGC TCACACCTGI AAATCCAGCA CITT

SEQ ID NO:940: (Length of Sequence = 385 Nucleotides)

GTAATCCCAG CIACTIGGGA GGCIGAGGCA TGAGAATITC TTGAACCCGG GAGGCGGAGG TTGCAGTGAG CAGAGATCAC GCCACTGCAC TCCAGCCTGG GCAACAGAGC GAGACCCTGI NICAAAAAACA ACAAAATAAA TTTCCITITA ACATCIGINC CAAAAATGAG ATAAGGGTTA TCAGGGCAAG TCCATCCTCA TCACTCTTTC CCTCCCCACT GCCCTCTCCA CGATGCCCAG CTGATCAAAA GTCATTTTTA CTCATAAGAC CAAAGTATCA TGGGATACTG TGCAGTTNGA GAGCAGGTTG ANCATCAGAA ATAATTGCTG ACAATAAAGT AAAAGATGGG AGAAAAGCAA GGCCNATTGT ATATAATACA GCTTC

SEO ID NO:941: (Length of Sequence = 406 Nucleotides)

GSTAACAGGI TITTACCAAC AATTGCTTGI AGCTAATGIA GAACATACTI GAGAAAATGG CITCIGTGAA AGACCAGITA
GTACCAAAAT AATCIGGCCC AGAAAAATAG CCACCATTCI TGACTACATI AATAGAAATA GAATAACCCC CAAAGGGAGA
TGAGAAGCAT TCTAAAGTGC ACTGATCATG AGTITCTATG TGATGATTTG TGTCCATTTG GAGCTCCAGI GCTTTAAAGC
TGAAAATGAAT CCTGGCCTTT CACCACCCTC CCTGCCCATA GTATGGTATA TCCTCTTATT CCTTCCCTCT TAGCTTACTG
AGAGTGTAAT TTCCAACCAG TTAAGGCCAA AGAGGACTAT TTTCTAGGAA AGGAGAGAG GATGAATTAG CAGTTAATGG
AGGAGT

SEQ ID NO:942: (Length of Sequence = 296 Nucleotides)

GATGGCTCAT GCTAGTTCAG CAAATATTGG GCCCTTCCTG GAGAAGAGAG GCTGTATCTC CATGCCAGAG CAGAAGTCAG

CATCCGGTAT TGTAGCTGTC CCTTTCAGCG AATGGCTCCT TGGAAGCAAA CCTGCCANTG GTTATCAAGC TCCTTACATA

CCCAGCACCG ACCCCCAGGA CTGGCTTACC CAAAAGCAGA CCTTGGNGAA CAGTCAGACT TCTTCCAGAG CCTGCAATTT

CTTCAATAAT GTCGGGGGAA ACCTAAAGGG CTTAGAAAAC TTGGCTCCTC AAGAGT

SEO ID NO:943: (Length of Sequence = 223 Mucleotides).

GIGCCATTAC AACTITUCIG TAACCCIGAA ATTGIGICAA AGIGAAAATT TITTAAATGA GATTATAAGA GCATAATCAA
ATTGGAATTT CCTTAGGATA CCAGAGAATC ATTINCTICI CAGGIAAAGG ANITITCCTT TINGIAGICC AGAGCTATAC
ATGATTAAGA AANIGITCAG NCCAGGAAGA TGACATCICI GCTAACCTAA TGGATTATCA TGG

SEO ID NO:945: (Length of Sequence = 222 Nucleotides)

CITARACART ARATACACCT GAGITAGITT TOCARACCIT TOCICCIGAT TARATGCCCT TARAACITAR ATCICTIGIT

ATCITCAGIT GIGATCIAGI CCCARGIGGA ARTIACGITT AGCITTARAR CCATGRATT ARAGCICAAG CCIGIAGCIG

GCTGCCTAGG CANTITATGA TIAGITTCAC AGRATAGCAC CCACTGGCTA CACAGGNCCC AG

SEO ID NO:946: (Length of Sequence = 286 Mucleotides)

GCICICICTA CCCCCICATC TAGGIATGIN TATAGCTCAT TIATTIAGGG GIGATGITAA AAAATTGAAT GCCCTTAATG

GCAAGGGAAC CAACCAATCA AIGIGGATGC CACAACTITT TCCCCIGITG ACTGITGINA TICGIATGGA ACTATTITIT

TUTTCICCCA GCITTTATTT CAGGITCAAG GGATACATAT GCACGITTGI NACAIGGGIA AATTGCATAT TGTAGGGGIT

TAGGIATACAG GITATTICAT CACCCAGGNA ATAAGCGTAG TACCIG

SEO ID NO:947: (Length of Sequence = 335 Nucleotides)

GGAGGIGCAT TINCICCCCC TITGAAAGAT TITATGTAGAT TCCTAAAAGA AAATTCAGAA TATGGAGTAG CTCCTGANTG
GGGAGATGTT GITAAGCAAT CTGGATTTCT TCCAGAAAGC ATGTATGANC GTATTCTCAC TGGTCCCGTT GTGAGAGAGG
AAGTAAGCAG GCGGGGGAGA CGGCCTAAAA GTGGAATTGC AAAGGNCACA GCAGCAGCAG CTCTGCAATC TGCCACCAGT
GTTTCAGGCA ATCCTTTTGT TTAAGCCCAAT GGACCTACTT CCAGGGNGTG GGNTCTCACA AACTINITTC AGGGCCTTAC
AACAAAAACC TACAA

SEQ ID NO:948: (Length of Sequence = 216 Nucleotides)

GGATGTAAGC TCCCAGACAG ACATCTCGGG AAGCTTCGGC ATCAACAGCA ACANTCAGTT GGCAGAGAAG GTCAGATTGC
NCCTTCNATA TGAAGAGGCT AAGAGAAGGT TCGCCAACCT GAAGATCCAG CTGGCCAAGC TTGACAGTNA GGCCTGGCCT
GGGGTGCTGG ACTCANAGAG GGACCGGNTG ATCCTTATCA ACGAGAAGGA GGAGCT

SEO ID NO:949: (Length of Sequence = 369 Nucleotides)

CCCITCCICA AAAGATAAAA ATCTCTGGCA GAAGAAATAG TTACCTGCTG CCATCCATCA GTACTGCAAT TACCATGACT
CTAAGTGACC TTCTTGCCCA ATGTTTAATG CACAATGGAC CGTGCCCAGG GAGACCTGGG CATINTCTGT TGCTTTGTTC
TACAATGATC CCTTCTGTTC TAGCAGCGTG ANTCACTGAT GGTCATACTC TCTGAGGACT GTACGCATTT TCACCCTATA
TCCACCTGTA CCAGAAAACA TGGACATAAT TTAAAGTTTA TTTCTACTTA ATAGAGTGAT ATTCCAACCT GTGTGGGAAA
ATAACCATIN GTCACTCTTT AAAGGAATGG TATTTAACAT TTATTTATA

SEQ ID NO:950: (Length of Sequence = 288 Nucleotides)

AATGGIGAAA TAGAAGTCCA ATTACCIGGG GAAACTTCAT CITAACCCTC TGGAATTINC AGTCTAACCT AAATATTGAT
ACTACACCTG CAGCAGCATT TAGGITTAGCA TGIAGTGAAA AAGTAAGTCI AAAAAATATT TNCATAATCT TTGGITCCTA
AAATTGITTT AAAAGAGATG CAGTGACATA TGTCTGGAGT TTGCTTATGG CCAATAGGIT AATGCTTCTA GCTTCTATGC
TTATTGCAAA TITTAATTAT GTGAATATGC AATTTTCACT TATATTTG

SEO ID NO:951: (Length of Sequence = 302 Nucleotides)

TETCACEATE TTACAAGAAC GATTCOGGGA GITTINCCCGA NACACCGGGA ACATTGGGCA GGAGCGCGTG GACACGGTCA
ATCACCTGGC AGATGAGCTC ATCAACTCTG GACATTCAGA TGCCGCCACC ATCGCTGAAT GGAAGGATGG CCTCAATGAA
GCCTGGGCCG ACCTCCTGGN GCTCATTGAC ACAAGAACAC AGATTCTTGC CGCTTCCTAT GAACTGCACA AGTTTTACCA
CGATGCCAAG GAGATCTTTG GGCGTATACA GGNCAAACAC AAGAAACTNC CTTGAGGAGC TT

SEO ID NO:952: (Length of Sequence = 302 Nucleotides)

TITITITINI CCACTICACA GITGATGCCA ACCCAGCCTG CATCACAGAG ACACTIATAT CCACTGAGAC CTCCAGTACA
GITTCCATGG ATGCAGGGAT TGCNCAGGCA TTCGITCACC TGINAGTAGC AGCTGGGGTG ATGGGGTCCC TCGGGGCATA
TACAGCGGAA ACCATTCACA CCGITGATAC ATGINGCACC CTTGCGACAG GGATTGGNGG CACACTCATC AATGTCAATG
TTACATCTCT GGCCTGTGAA ATCCTGGTGA GCAGACACAA CTGTAGCGAT TAATTGCCAT CC

SEO ID NO:953: (Length of Sequence = 301 Nucleotides)

GAAAATNAAC TITGITTGAA AAGITAGIAT GGGITAGAAA TGGGAAGAAA ATCTAAAATG TAAGAGTAAA AGCAAGGCCT TCTTGCCATT CTCTTTTAAT ATGGGCTTIN CTGTGTTAGT TAACATCTGA TAATATGACC CCCCAATCTA TTAATATTTA TTATACCCAT AAAATTACAG AAAAAAACCTA AGAAAGGGTA TGTATTGAAG TGGAATGAAT AAATGCAAAA AATGTAGTAC

TTATAACATT TTGAAGAAA TCTTTAAAAA TNITTGITTA CACAGAAAAT AATCTTAGAA A

SEO ID NO:954: (Length of Sequence = 217 Nucleotides)

AGAGCITAAA AATAGIGAAG TCTTTATAAG TAATTITTAA AAATTTAAAC TAGGACCATA AATTICTAAA CTATGAGATA AATGANCAAG AAAACAAACA GGIGITTAGG AAAAGGIATG TATATGGICA ATGAAATAAA TACAACTGIA TTTTTAATGA GANTTAACAT ATTTINNITT AACAAAAGCA GCATGIAACA CACAATGIAT TATATGT

SEO ID NO:955: (Length of Sequence = 260 Nucleotides)

TATTIGATAG AATTITCIAG IGAAACCAIC CIGACTIGGG GITTIATITI GGAGGAATIT TAAGITATTA ATTCCGICIC CITAATAGIG ATAGGACIAT ICAGATIACC ITATITCATA TITGGIGAGI TITGGIGAGI TGIGITICIC AAGGAAGIGA TCCATITCAT CITAAGITGCC AAATTIATIGI GIGIATAATA ATTIGIAGIA TICCAGIATI ATCCATITGA TGICIGIAGG GICTCITAGIG ATATCCTATG

SEO ID NO:956: (Length of Sequence = 216 Nucleotides)

CCCIATIANA TCATIANGCA TIGCATGCAN TACTITINCT GIGANANTA TIANCTICCT GGINTATANA ATTATITCIA GITATGITIA ANTATITICCN CIGGGATATI ATCATCITING ATCIGIANNG TGGINCIANA ATRATITINIA AGATATACAC ANACAGANAN ATRATANANC ANATGIATCT TATACATAGI ACTIGG

SEO ID NO:957: (Length of Sequence = 353 Nucleotides)

TATGTACCAG GTGTGGAGCC TAGAACAGAC ACCAGTCAGA AGTGCAGATA AGGTCTGACT TTCCAGCATA GCCAGGGGAC
TTGGCTGACT CCACATGTCC CCAGGCCTTA CCTAGCTGTA AAGCAGGCAG GTTGTGAAGT CATAGTGGCA GTTTATGAAA
TATTTAGGGG ACCTAATAAT CTTTAAATTG TATAACATTT CTTGCATAAA TTTCCTTTCA TGAATCCTTT CATGACTTAG
ACCATCTATG ACATGCTTGG ACTTTCTGAC TTGTCCTAAC CACCCCTCTC TTTAAACAAC CAGTCTTTTT ACTTTAGGAC
AAGAATTTAC CATACAAGAT TCTTTTGTAT AAA

SEO ID NO:958: (Length of Sequence = 410 Nucleotides)

AAGGAAATGA ATTIGATAGC AGATIGITAG AGATIAATTA CCIATCATAT GCCAAAGCCA CITCCIACAT GTCAGTGCIA
AGGAATCCCC TAGAGATGGA ATTCCIAGGT TCAACTGAAA ATTAATTGIA ATTAATATAA TAGGITAATT CATTGIAATT
ATTITITAAGC CITTIGGCAA TGAGITAATT CCACAAGATC CACATGCIT GAAGTGTCAC AGAGAACACT TGATGAGAAT
GINCTAGTAA TAAACCITAA CCCTCIGGGG AAAAAATCCT ACTGICTITC CITCIGGCIT CGITTCTTCT GGAACATATT
TNGGTGGCCAT TIGGATATCT GGAGGACAAA GGGATCCCTA CAAGGTGGNT GCATAAACAT GCGTGGGCCC AGATGGACTG
TGCTCATTGG

SEO ID NO:959: (Length of Sequence = 197 Nucleotides)

GCCCGGCGAC CGTAGCATCT TCTGGACCAC AAAATAGAAC ATTGCCAGGC AAGGCAGGGC ATTTGGGGAA TTTNAGAGAA AGCAGGATGA GTGATGGAAT TGGGAGGGTG GCACAAGATG TTAAACAGCA TATCTTAGTC CTCATCTAGG GTATAAAACA GGACCCATGG ACTCTAGCAT CCTGGAATGA CAGAGGG

SEO ID NO: 960: (Length of Sequence = 345 Nucleolides)

AATAAACTIC TGITGITTIA AGCCACCTAG ITGIGGICAC TTGITTATGGC AGCCTTTGGA AACCAACACA CCCGCACATG GCGIGITTIAA CGCAGGCIGA TACAACCTTA AGAAAGGAAT GGNIGIGGIC ATCAGCAATC TCCAATACCT ACAGCAAATG GCAACACAGE GAAGGACCAG AGGTGTAGGT AAAGCAAAAA GCCACAGGTC ATTAGGAAGT GATGCTCCAA CTGGGCATGG AAAAGGAGTT TGGAGTTAGG AACACGACAG ATCTGTCTGG ACAAGGNTCC AGATCTCTCC TAGGGGGAAG NAGGGGCAAC TTAGGACAGT TTTTGTGTCT GTGGG

SEO ID NO:961: (Length of Sequence = 327 Nucleotides)

GCTGAAGAGG AACATGTGTC CTCGGCCACT TCAATCACTG AGTGTGACAA ACTTTCTTCC TTTGCCACAT CAGTGGGTGA
GGACCAATCT NIGGCCTCAC TTACAGCTCC CCAGACAGAG GAGACAGGCA AGAGCTCCCT GCTGCTTGAC ACAGTCACAA
GCATCCCTTC CTCCCGTACT GAAGCTACGC AGGGCTTGGA CTATGTGCCA TCAGCTGGTA CCATCTCACC CACCTCCTCA
CTGGAAGAAG ACAAGGGCTT CAAATCACCA CCCTGTGAGG ACTTCTCTGT GACTTGGGAG TCAGAGAAGA GAGGAGAGAT
CATAGGG

SEO ID NO:962: (Length of Sequence = 369 Nucleotides)

SEO ID NO:963: (Length of Sequence = 278 Nucleotides)

CTCAAACACC CEAGGCCGGG AGGAAGAGA AGCCGATGCT TCAGAGCAGA CACTCCTTAG ATGGCTCCAA ACTTACAGAG
AAAGTGGAAA CTGCTCAGCC GCTGTGGATA ACGTTAGCAC TGCAAAAGCA AAAGGGGTTT CGGGAGCAGC AGGCGACGCG
GGAGGAGAGA AAGCAAGCCA GAGAGGCCAA ACAGGCAGAA AAGCTCTCCA AAGAAAATTN GAGATCTCCG ACTCGGCTCC
CCCAGCGCCG CTGGTAAAAG AAGTCACCAA GAGGTTTT

SEO ID NO:964: (Length of Sequence = 349 Nucleotides)

ACACTOTOS TATAGACAGT OGIGAAGAAC AAGGOTGAGG GATTTINAAG TAAACCCATT TICAGGATGA CIACAATCCT
TOCACTTOTA GAAAACTTAG AAGTACAAGA AATAGOTOTA CTACGGGTAA CTGATTTAAC AATTTCCCAA ACACCOTTTC
CACTACCCAA GCCCGTGGCC CTCAGAGAGA ACCGGGATGG ATTGCCATCT GGGTTCAGAG GCAATATGAG GAGGTTGGGG
GGATGGCAGG GGCATCCTCA GGGTTGGGGG GCAGGCCAAG GGGATGAGAT GGCAAAGGAC AGCTTINGGA ATCAGATAGA
CGATCCAGGG TGCCTTCCTA CACTTGCAT

SEO ID NO:965: (Length of Sequence = 361 Nucleotides)

AGCAGCAAGC CAGACGIGAC TGTCAGGAAC AAGCTAAAAT AGCIGIGGAA GCTCAGAATA AGTATGAGAG AGANITGATG CIGCATGCIG CIGATGITGA AGCICTACAA GCTGCGAAGG AGCAGGITTC AAAAATGGCA TCAGTCCGIC AGCATTITGGA AGAAACAACA CAGAAAGCAG AATCACAGTI GITGGAGTGI AAAGCATCII GGGAGGAAAG AGAGAGAATG TTAAAGGATG AAGTITICCAA ATGIGTATGI CGCTGTGAAG ATCICGAGAA ACAAAACAGA TTACTICATG ATCAGATCGA AAAATTAAGI GACAAGGICG TTGCCTCTGI GAAGGAAGGI GTACAAGGIC C

SEO ID NO:966: (Length of Sequence = 163 Nucleotides)

CTGCCTTCTG GGTTCAAGCG ATTCTNATGC TTCAGCCTCC CAAGTAGCTG GGATTACAGG CATGTGCCAC CATGCCCAGT
TAATTTTTGT ATTTTNAGTG GAGATGGGGT TTCGCCCTGT TGACCAGATT GGTCTTGAAC TCCTGGCCTC AAGTGATCCA
CCT

SEO ID NO:967: (Length of Sequence = 365 Nucleotides)

GIGICAGIAA TATGITGIAC ATATTATINC ATCACCCAGG TGITAAGCCC AGINCCCAAT AGITACCITI NCIGCICCIC
TCCCICCICT CACCCCCCIG CITCAAGICT ACCCCNGIGI TITCITCITIT GIGITCCIAA GINCIIATCA TITAGCICCC
ACTIGIAAGI GAGAACATGC AGIATTIGGI TITCITGITCC TITGITAGIT TACTAAGGAT AATAGCCICC AGCICCATCC
ATGITCCCAC AAAAGICATG ATCICATICT TITTITATGGC TGCATAGIAT TCTGIGGIGI ATATGIACCA CATTITCITI
ATCCAATCIG TCATTGATGG GGCATTIAGG GTTGATICCC TGICT

SEO ID NO:968: (Length of Sequence = 390 Nucleotides)

GTGTATAGIA ATTTAATAGI AATTAAATGI AGAGTATTIG TAAAAACAAG GAGAGGAAAA AGAACAATTC ATATTIGAGA
ACTCCTAATA ATCTTCTAGA GCAGAGTICA AAGAAGCAGT GGTAAAAATA AAGCCAAAGA GATATAGGGG CTAGTCTTAG
AACCAGGACT TCCTATAGAA CCAGCTTCCT ATAGAATCTG AACTTTATCT GAAACTCTTT CACAGATCTC CTCCACCTTA
ACTTCCACAA AATAAGAAAT TTGGATTTTG AAGGCAAATT TGTATATTTT AAGGAGCAGG ACAATCTCAG CTGTATCTGG
GTTTGCAGAT ATCCAACAAA TCCTACCCAA ATCACTTTTC CAGCTGCAGA CTTGGAATTT CAGATCCAGG

SEO ID NO:969: (Length of Sequence = 340 Nucleotides)

CAGACAGAAA AAGATTIGAA GAGACGGGTC AGGAACTAGC GGAATTACTG GAGGAAGAAA AACTAAGTIG TGTGCCAGTN
CTCATCITTG CTAATAAGCA GGATTTGCTC ACAGCAGCCC CTGCCTCTGA AATTGCAGAA GGACTGAACC TGCATACCAT
CCGCGACCGA GTCTGGCAGA TCCAGTCTTG CTCAGCTCTC ACAGGAGAGG GCGTTCAGGA TGGCATGAAC TGGGTCTGCA
AAAATGTCAA TGCAAAGANG AAATAAAATC TAGACGAATG GAGATGCAGG AGCTTCGGGA GCCGAATTCG GGCCTTAAAA
ACACTAATTT GCTGCTTTCT

SEO ID NO:970: (Length of Sequence = 372 Nucleotides)

TTTTAAGATG GGATCTCACG GITACCCAGG CTGGAGTGCA GIAGTGCGTC ATAGCTCACT GTGGCCTCAA ACTCCTGAAC
TCAAACTATC CTCCTGCCTC AGCCTCCCAA ATAGCTGGGA CTGCAGGCAC ATGCCACCAT GCCTGGCTAA TTTTTTAATT
ATTTTGTAGA GATGGGGTCT CACTTTGTTG CACAGGCTGT TTGCTTGATT CITAAGAACG TATAGGGATC CAGCTGTACA
GAGCTTTCTG CAGTCTTTTG TAATAGAATT AGTTGTTAAA ATTGTACTTA TTACATGAGG CATCAAAGAC CTTGGAATAA
AGCTATINCC TCACATATCT GGGCCATTAT TTTGGACTTA CTATGGTTAC CG

SEQ ID NO: 971: (Length of Sequence = 337 Nucleotides)

GACTATAGAG AACGCTGAAG TITTGAATAA AAGACTCTAG GGTGAGCTTC ATCAGTGCTT GCTTTGGATC CAAGATGTAA
TGAGATTCTN CTTTCACGTC AACAATTGCC GCAAATNCTT TCACCTGAGT GGAGCTCGGA GCACCCAGTC TCTCTGCATA
TAACCAAAAC AAATTTGAAT CCAAAAAGGTA GATGTTGAGA GTCTTGTTGG TTCTGCAGCT CAGGCCTGTG AAGTTTGTGC
TAGTCATGTC CACTTCTGGA AAGAAGGATAC CTGTNCTCCT CAATGTGAGG GAACGGGAGC TINGGGGCAT CAACCTCACA
TTTTCTTCTC AAGGGGA

SEO ID NO: 972: (Length of Sequence = 396 Nucleotides)

TTCCTTTACA TCAAATATCC TCAATGGAAG AGGGGATATT GCACACAAAT ATCATAAAAG CACTACATAT TACTTTCACT
GGAAACTAAT TINCTACATT AGATATGACT GGATAGGATA GAAGTGATGC AGGATTATAA GACATAATAC CATACACAGC

TECAGACTEA CACAAACACC ATTCAGAACA AGAGAGAGGA GTGTGAAGTE CTTCTCAGCT GEGCTCAAGA CCACTTCTTT
CCAGTGCTEG AAAGAGGGGC TECATGCAGT GTAGGAAAAG CGTGTCTCTG AACTGCCACA GEGTGTTCTC GAAAGGGCAG
CCCGGTCTTG ATGCCACTTC TCCATGGCTC CTGTTTTTGG GGGAGCTCCA AACAAGTGCA GAGAAGCTGC CTATTT

SE ID NO: 973: (Length of Sequence = 401 Nucleotides)

TTCTCAAACT TCCAGTTCTC TTCCTGGGCC AAGATCTGGT CCACCACTGC CGTGGCCTCC TTCCCCTGGC GGATGT: TCCCGCTCCTGA GCAGAGAAAC TTTTCTTCCC AGCAACTTCT TCATCTGATG GGAGGAGGGA ACTGAATAGC TTTCC: 334
GGGAGATAAG AAAGAAGAGT GTGGTGTGAA CAGGGAGCTT TGAGCTGTGG AGTTGGGCTG GGCATGGAAA ATNCGGAAGA
GAGTTAGCAAG GAATGAGGGG CTTCAGAGAA CTCTNGGATC AGCCCTCCCA CACTCACTGC CCTTTTAAGGT ATCTTTGGGG
AAAA: AGGG GCTTCTATGA TGAGTCTGGC AGCTNCCCAC ACTGCATTCT CCTCCTGCAT TTTTTTACCA TGCACCAGGG
C

SEO ID NO: 974: (Length of Sequence = 3 ... Nucleotides)

TITIACAAATG AACCACTGAG CACCICAGTA CITAGCICAT ACCICATACC TIAGTICCIT AGTACTTAGC CITGTGCCAT
CITGAATGAG ATGGAGTGAA GIGAAGCICG AAGGAGTGAC AGAGACATAG TCCTTGCTCT CAAGGGGTCT TTAGCCTGGT
CITGGGGGACA AGATTTCCTC ATCTACCTCT TGAAAGGTGG CAGGACAACT CCACACTGGA GIGTTCTCAC CAGCAGATAG
GIGCTGCGGG AGTGTGGCGC CACATTCTTT ATAGCCACAG GCTTTCGTGG GACTINCCCT GGGGTCCTTC CCTATTTGGC
TGGGTGGACC ATAAGCGGCA AGTGAATGTG GCAAACTTCA ATTCACAATT AA

SEO ID NO:975: (Length of Sequence = 340 Nucleotides)

GACAACAGAA AAAGAAGTGG ACAGCTACCC TAGATTCTAG CTCACACATA ATTCAGCCAG ATAATCATCA TTTAAATAAT
ACCCCTTGAA ATTTTTCAGA CTTTTCACAG CTCTAAAAAC ACAACATCAG ACATAACATC ACACATTTGT TCCAAAGGAC
TAAAAAATCAA AAGCAATTGC AAAGTATTGG GAATCACTTT TATGGCTTTC CTAAGGGACA GTCCCCATCT TTCCAAAGGAG
TGTTTTTAAA GAAGCACTAA CTCTGGTAGG TTATCAAACT ATTTTTTAAT TCTAAATAAA TAAAAGACTA ACTGAAGGTC
TCAGGTGCAC ...CTTATTTTT

SEO ID NO: 975: (Length of Sequence = 343 Nucleotides)

CTGTTCCCTA AATATTATTA AAATTTTAAA AATTAGACAT TTGGTCTAAA TTAGACAGGT AAGATACTAC TGTCCTTACT
AGATGCTTTA AAGTCATAAA CTGCTTCTAT GGCTTTINAT AATTGINCAA CTTGCTTGCT TTAGAGCCAT TGGATTCTAG
GTAAGGCCTA GAGACATTTG GAGTTAGCCA TGTCCCCTAG CTATGCTAGA AAGAGTCCGA CATTATCTGT GGTTCTGTCC
TGTATCCTAC ACTCTACACC TGATACATAA TTAAAATTAC TTACACTAAA AATAAAAATG GATGCATTTT TTAGGTAGGA
AGGGTATGGG AAATTATAGG TITT

SEO ID NO:977: (Length of Sequence = 265 Nucleotides)

ATCITIGIAA TATCAGIGCC TAGACTAAGC CIGGOGIATA ATAGGCACTC AGAGATITGA AGAATAAATG ACTAAATGAC
TGIATCAAAT ACTIGCCCAT TGITTGCIGI TICIGANITG TACAAGGCCA TCATGATAAT TGATGATCIT AATAATGIGA
GAATATGATT CINITACCIT AGIAAGAGA CCATCAGIIT ATTGGATGAT AGITATATGG AAAAAGAAGA AATGCTACIG
TGATAAATAT TIATAATTIT AAACA

SEO ID NO: 978: (Length of Sequence = 285 Nucleotides)

ATGGTGGGCT GCCCTGGCCG AGGTGGCCAA GATGGCACCT GTTTCCTGCC TCANAAGAAA AGGCACTGAC GCACTGACCC
TTTNAGGTTG TNTGGGGTGT GGTCAGTGCC CTCCTGCCTG AGAGTCAAGT STCTTTTCAA GCCACTTCA GCACACCTCA

- SEO ID NO:979: (Length of Sequence = 316 Nucleotides)
- " GTGCGINCAC ACTCTCCTCC TGCTCCCCAA ACTCCTCATC ATTGAAGCCG AAGTGGTCAA TGAAGGCAGA GGTCATGCGC
 - TGCATCTGGA AGTCCATGAA GGCCTGCTGC AGCACAGCCT CCTCAGGGAA GTTGAACTCC TTGAGCCGGT CGTCCTCATC
- GICACIGGAG GAGIGIAGGI GGIGGGIGIT CACCAGGICC ACCATGITCT TCTTGTTGGI CICCGCCAGG GGCCCCGATA
 - CHANGECTIC CCACIGCICC TGCIGCICGC TGGGCAGCIC CITCAGCAGC TTGCCGCAGC TGCICIGCAA TTGGGG

SEQ ID NO:980: (Length of Sequence = 386 Nucleotides)

AAACTGGCTT GCCTTCATCA TCTCTGCAGG GNTCAGTAAA GATTAGAAAT GGATTATTTA CCTTGTTATA CAAATACACC
TCCTCCCTAC ACCCAAGANT TGAGAGGAAG ATGAGCTGTT CCTGTGTTAA CGCCTGANTC AATCCCATTA TCTGCATTTC
TGTGTGTGGT TAGCGCTCCA GCAGCCTAAG GCGGGAGCTG GAAATGACAG CCTTGGAGAC GAGGAAGGCT CCAGGGAGGA
CGGAGGGAA CACCTGCTGA AGAATAAGAC GGGCGGCACC AGCCGGGCTG ATTTTGGGGA ACGGAAGGTA ACAGAGGGTG
ATGCTTCTAA TCGCTTTTAC AAGGTCTTGG AAAGACGGGA TNGCCTTAAC CAACTTGGGG TTTCTT

SEO ID NO:981: (Length of Sequence = 322 Nucleotides)

GITTATIAAT ATTIAAACAT ATTAAAATAA TACATGINCA TAATGAAAAT GAAACATTAC AAATAAATAC ACAGGAAAGG
CAGTATICCC CTICCAGITC CACTCITGAA ATAACCAGTI AACAAGATGA TGAACATCIT TCCATGATGI TCICCAAGAT
TCATATTATT TTIGCAATCA TACAATGGCA TATACAGCIC AGGIGGGGIG GCTCACGCAA GIAAATCCCA GCATTITGGG
AGGCTGAGGC GGGIGGITCA CCTGAGATCA AGAGTTCGAG GCCAGCCTGA CCAACATGAA GAAACCCTGI CTCTTACTAA
AA

SEO ID NO:982: (Length of Sequence = 305 Nucleotides)

CCCAAGGCTG TAGTTCAGCA TCAACAGGGC AGGGAGCTTG GCAGGGCAAG GGCAGAGCTG GAGATCATGC CCAGINITCC
AGGTGCCCTC CCTCCCAATC AGCCTGGGGG GCACAGGACA GGGATGGAGA AGGGGGCTCTC TCCATGGCTT GGGTAACATG
CCAAAGGCAG GTCATAGGGC AGACTCAGTG GGGGTGGGGG CCTGGCTAAC AAGCAATGGA GAGAACGGGG GCCATCCAGA
GAGGTTGGCA GAAGAGAGCC CCTGGGTCAA GAGAAAACTT TGGGGAAGAC AAGACACGGG AGAAG

SEO ID NO:983: (Length of Sequence = 399 Nucleotides)

AGCCCTTGIT TIGITITIAA AAGCTGTCGT GITACTGCTT AAAGTCTCCA AACTGTTATT GAGAACACTG ACCAGAGCCC
TGTCCATAGA CCAGTGTTTT TCCAAGTGCA GATTGCAACT CCTTTGCAGA GTAGGTTGTG GAGCCATTIN AGCTGACTAC
TCACCAGCTT TCTTCAAAAAT GTAAATGGAA TAGGATAGAA AAATAATGAA AAATTGTAAA GTGAATTGGA TGCAAAAAAGG
GTAAATATTG INGTGCAGA CTTTTTTGGG TGAGTGTGCA TGTGTTCACA TACTGGNTCA CATTATAACA TGTATTGCTC
ATTATGGGTT GTGGTCAGAA AAAATTCAGN AAACGCTGTC TCAGACTGTC CCCAAGTTGT ATTTGCTTAT AATGGGACT

SEO ID NO:984: (Length of Sequence = 408 Nucleotides)

GIGGIATGAG GIATCAATGA AATACATTIA AGATGIACAT TOGITTGITT CAGAAAGGCG AGACAAGICA AAGCGGGGAC TICCAGGCIA TAGGIAAAIT TATACATTIC CIGGITAAGA TIGGITGAGI TIGICIAAGG ACCIGGGATC AACAGAGAGG AAATGITTGG NITAAGACAA GGATTGIGGA GACCAAAGIT TIACIACGCA GAGGAXCCIC PTAGCIAGCA GGCATAAGAC AGAAGAGGCT GIAAAATGIT TICTIATGAG ACTGAAAAGG GIGCCTGACT CITAATTGAT TATCICCTGG NICTGGAAAG AAAAAAAAAA GGGAATGGCC AGGTGCGGTG GCTCAGGACG GGTCTGGTGG CTCACACCTG TAATCTTTCT TAAAACGTTA
TGAAGTTC

SEO ID NO:985: (Length of Sequence = 439 Nucleotides)

TOGTATACTT TIGINITITI TICTACTIGT TAGITGTATI AGTATCAAAT GGCATAATAA AGITACTITG TITGCCATIT
CCCACTCATC TGAAAATCAC AAAAAGCATT TATTICTAAG ATITATATCC ACTGACCTTT TCCCCAAAGT TATTITCCTG
TTACTTGTAT TICATCTTTG CCCTTATTTC TITAATATTT GTATTAGAAT TAGCTTGCTC TTGTTTCCTT CACGGCAAAT
GTGTTACATT GCCCACTGGG TGGCTTCTGC GGATGCCCCT ACCCACCCCT CGTCTGGAGC AGAGAAGTCC TGTTAGCCTA
GCAGCATAGT GGCTGCTGTC AGTGCGAGGA GTTGTGCTTC TCTAGCATGG TCTGTGATGT CATCTGGACA TAATTAATTA
GACTAATCCG AATAGAGGAC CAAGACAGCC CTGCCTGCG

SEQ ID NO:986: (Lenc of Sequence = 286 Nucleotides)

CGGCGACGAA CATGGAGAI

CACCTTCTCC GGCAGATC

AGATGTTG GAGCGCAAGT CCTCCTGCGG GAAGAAGTGT CGCGGCTCCA GGAGGAAGTT

CACCTTCTCC GGCAGATC

AGATGTTG GCGAAGGACC TGGAGGAGTC GCAGGGCGG AAGTCCTCTN AGGTCCTCTC

GGCCACCGAG CTCAGGGT

CTGATCGGAA GCCCTTAI

CGAGAAGA CAGACCTGGT GAGCCA

CGAGAAGA CAGACCTGGT GAGCCA

SEO ID NO:987: (Le of Sequence = 381 Nucleotides)

TCCAAAGGIT TYCATCIC TGGATAA ACAAAC TG GTACATCTAC ACAATGGAAT TGGGA GATGAAACAG
AATGINTGAG GGCCCAC: CATGITAT GGIC TG GTCTGCCTCC CA NICCA CAGGCA GATGAAACAG
GGGTGAGGGG CTGGGAGA CATCA AC AAGGGTGGAA GC GAAGA CGACCAG TA ACAGGGT
GTNTCACATG GTACAACCAA GAGACTTGGC GTGC-AGAA CCAAAGAAAC ACTCAGGACA CACGACAT CTGCAGGGAA
CCTGGGGGGT GGTGAGGAAA GTCGTGCACG GGTGGTTGGG GGGAGACTTG GAGGCCCCTC T

SEQ ID NO:988: (Length of Sequence = 381 Nucleotides)

GAATTAATAC CAATAGAAGG GCAATGCITT TAGATTAAAA TGAAGGTGAC TTAAACAGCT TAAAGITTAG TTTAAAAGTT
GTAGGTGATT AAAATAATTT GAAGGCGATC TTTTAAAAAG AGATTAANCC GAAGTGANIT AAAAGACCTT GAAATCCATG
ACGCAGGGAG AATTGCGTCA TTTAAAGCCT AGTTAACGCA TTTNCTAAAC GCAGACGAAA ATGGAAAAGAT TAATTGGGAG
TGGTAGGATG AAACAATTTG GAGAAGATAG AAGTTTGAAG TGGAAAAACTG GAAGACAGAA GTACGGGANG GCCTCCTTCA
TGTTTACAAT TTTAATTAAT TTTTTTTATT TTAGGAGTAA TTTCTTACCA AACATTACCC A

SEO ID NO:989: (Length of Sequence = 432 Nucleotides)

GTCTTGG: TIGCAACCT CTGCCTCCTG GGTTCAAGCG ATTCCCCTGC CTTAC CC CAAGTAGCTA AGAT:

CATGCGC ATGCCTGGC TAATATATAT ATATATTTTT NGTAGTTTTA GTAGALACGG GGTTTCACCA CGTT.

GCTGGTCTGG AACTCCAGAC CTCAAATGAT CTGCCCGCCT TGGCTTCCCA AAGTGCTGGG ATTACAGGCA TTAGCCACTG

TGCCTGGCCA ACAATATATA TTAAATAAGC ACACATACAA CAAAAGTAGG TGTTGGTAAG CTTACAAAAA TGTGACCAGT

AGCTTGCTGA AACCTAACTT TTTATTTGTT CATGGAACTT TCTAGACCGT AACTACACTG AATAATGAGA ATCTGCTGTA

ATCTTTTTTTA GGTGCTGTAG ATGAGCCATT GG

SEO ID NO:990: (Length of Sequence = 421 Muclastides)

GGCAGCCCTA CITTINCITC TCATTAGCAG TITCAGTCCA CAGCTGGGGT ATTAAATTIG TNAGTCATTG AAATTAATCC CTGACTGAAT TGGAAAGGAA TTGTATTTGC AGTATTTGGA TTTATTTATT TINCAGGTAT GGAATTCTGG TGATTTTGAA

AACATGAATG ATACCATTIT GCAGCAGCAT TGTAGATTIG TAGTATTITA GATTGGTATC ACAGTGCACC TGAAAAGTAA
GITTCATTIT ACITTITUA TTGTTGTTGA GACGGAGCTC ACITTTGTCA CCCAGGCTGG AGTGCAGTGG TGTGATCTTG
GCTCATGGCA GCCTCTGCCT CGCTGGGTTC AAGCGATTCT CCTGCCTCAG CCTCCCGAGT AGCTAGGACT ATAGATGCTC
GCCACCATGC CCAGCTAATT T

SEO ID NO:991: (Length of Sequence = 351 Nucleotides)

CCTCACTCCC CGCGCTGGCA CCTCAGGTTT ACAAGAAGAA CTAGGAAATA ATGCCGGCCA CGCGACCCCT GGAGAGGGGG CCGGCTAGAA CAGCGTTCCT AAGAATCCGC GCCACAGCAG GTCCCGCGAT GTTGGGGCCT TAGTGTCATC GAGCTAGCCC CAATCCTCAA CCCGATCTTC AACTTCTGGT AGTCCTAACA GAAGTCTCGT ATTGAACCAG CCACINTGGC CAGGGAGAAG TAATCCTCTG ATAGTTGAGG TICTTINCTC TCCTCTGGAG CAGATAGTGG TGTCTCCTCC CCACAAAGCT CATGTTCTGC TGGAAGAAAT GGAGATGGCG CCCTGGAAGG C

SEQ ID NO:992: (Length of Sequence = 406 Nucleotides)

CCAGAAAAA TGGCCACTAC TACCACTIGG CICAGAAATG CIAGICTITA TITINCIGAAA TGITTIATAT AGAAAAAATT
TAATAATAAA TAGACATICI TATATATITIC CITIACCATII NAGATIGGGI TAAAAAAGIAT GGNGACTICC GGCCGGGIGC
GGIGATICAA GCCTGCAATC CCAGCACTIT GGGAGGCCGA GGCAGACAGA TCATGAGGIC GGGATCIGIG GCTAACACAG
TGAAACCCCG TCTCTATTAA AANIACAAAA GGAATTCCTG CAGCCCGGGG GATCCACTAG TTCTAGAGCG GCCGCCACCG
CGGIGGAGCT CCAGCTTTIG TTCCCTTTAA GIGAGGGGTI AATTTCGAGC TTGGCGTAAA TCATGGICAT AGCTGTTTCC
CGTGTG

SEQ ID NO:993: (Length of Sequence = 381 Nucleotides)

ATGGAAGGAC CGTGCCGGGA CCCCAACGAG GCANTGCGGG AGTTTGCCAA GGAAATTGAC ATCTCCTGTG TCAAAATTGA
GCAGGTGATC GGAGCAGGGG AGTTTNGCGA GGTCTGCAGT GGCCACCTGA AGCTGCCAGG CAAGAGAGAG ATCTTTNTGG
CCATCAAGAC GCTCAAGTCG GGCTACACGG AGAAGCAGCG CCGGACTTC CTGAGCGAAG CTCCATCATG GGCCAGTTCG
ACCATCCCAA CGTCATCCAC CTGGAGCGTG TCGTGACCAA GAGCACACCT GTNATGATCA TCACCGAGTT CATTGAGAAT
GGCTNCCTGG GACTCCCTTT CTTCCGGCAA AACGATGGCC AGTTTCACAG TTCATCCAGC T

SEO ID NO:994: (Length of Sequence = 384 Nucleotides)

GITCITCCAG TICGGAAGGA TAAAATCAAA TICCCACTIT CIGGGGIGGA TGCCCAAAAC CITCACAACI CAAGIGITCT CCAAGIGCAA AIGICAAAAAT GGGAGGAGA AAGGGITTAA AAATTAGAGA AAACIGTAIG CACITACGGA CITAAAAAATC CGAAAAAAACAT AGTAAAAAAGA CAAAAAAAACA TAGCATTAIG CICIGAAATC ACAACCAAAG CCAAAATAAA AGGGACATTT TICACCITAAA CTACCTAGAG GGATTTTTIG TITTAGITTTT CCTTTTTCTT TITTTTTTCA TITTCCAGIT AAGICCTAIG TCTTTINGIGA AATTCCAATA CTTAAACIGC AAGICIGCAA TCGTCCCTGA AGICAGIGAA ATTA

SEO ID NO:995: (Length of Sequence = 386 Mucleotides)

ATAACTITAA CAGAGGATIG GAATAATGAG GGATIGGCAA GGAAGCAGTA AAAGGGAACA CTAAAGTATA GAATAATAGC
AAACAGAAGG AGCACCCTAC CCCTAGGGCT GAGAAAGAGC ACAGGGAAGT CCTTTTTTINI TCCTGGACAG AGATCCAGAC
GAGCTGGAGA AAGAAGTTGC TATGGTACTG CATCANIGGA ACTTGCTGGA AATCCACCCT CAAGGGCACT AGGAAAAACCT
GTTCAGGGGA GCTGTGGAGG GAAATGGGGT TGGCAGGAAA GCTGCTGGGC GCGGGTGCT TCAGACTGCA GTGTATTGCA
GGAGCTTGGG CACTGGGGAA GCTGTGTGCA CTGCAGGATC CTGCTGAGCC AGCACATCAG ATCAGG

SEQ ID NO:996: (Length of Sequence = 307 Nucleotides)

GIGCGCCAAC TGCAAGAAGG AGGCCATCTT TTACTGCTGT TGGAACACCA GCTACTGTNA CTACCCCTGC CAGCAAGCCC ACTGGCCTGA GCACATGAAG TCCTGCACCC AGTCAGGTAC TGGTCCTCAG CAGGAAGCGG ATGCTGAGGT GAACACAGAA ACACTAAATA AGTCCTCCCA GGGGAGCTCC TCGAGCACAC AATCAGCACC TTCAGAAACG GCCAGCGCCT CCAAAGAGAA GGAGACGTCA GCTGAGAAAA GCAAGGAGAG TGGCTCGACC CTTGACCTTT CTGGCTCCAG AGAGACG

SEO ID NO:997: (Length of Sequence = 402 Nucleotides)

TCTGCACCTA ATACTGAGGG TGTGAAATCT TCCTCAGTAA TGCCCAGCCC TAGTACCACA TTAGCGCGGC AAGGCAGTCT
GGAGTCACCG TCGTCCGGTA CGNGCAGCAT GGGCAGTGCT GGTGGGCTAA GCGCCANAGC AGCCCTCTCT TCAATAAACC
CTCAGACTTA ACTACAGATG TTATAAGCTT AAGTCACTCG TTGGCCTCCA GCCCAGCATC GGTTCACTCT TTCACATCAG
GTGGTCTCGT GTGGGCTGCC AATATGAGCA GTTCCTCTGC AGGCAGCAAG GATACTCCGA GCTACCAGTC CATGACTAGC
CTCCACACGA GCTTCTGAGT CCATTGACCT CCCCCTCAGC CATCATGGCT CCTTTGTNTT GGACTGACCA CAGGCACTCA
CG

SEO ID NO:998: (Length of Sequence = 304 Nucleotides)

GCAG TOTAT GATTATINAAG ACTOACAACC ATGIGGAGAG GCCGAATCAC GCAGGAGAGC CACGCATTGG AGTACCCTGG CTCCCAGCCC CTTCCCCACC CCGINITGAG CCAGAGAGCT ACAAGCAGGA ATCCCAGTGC AGCTGCAAAT NATGGCCATC GAGGAAGTCT GTGGAGAAGA GGCTGGGGGC TGTGGTGCTG AGGGGGGCCTA GGCTCAGCAC GGGACCACCT GACGACAGCT CCCAGCCAGT CCATGCTGTC CAGGTGGCCA TCAAGCCAGG TTCCAGGGCC CATGGGTGCT TGCT

SEO ID NO:999: (Length of Sequence = 321 Nucleotides)

AGAATGGITT TGGAGCTCGA NATCTTCATG GGITAGACTT GCTGGTCAGA CCCAGGAGCA CCTGTGGCTC ACACCTTCTG
TNCCCCTCCT GGCCTGTGCA GAATGTAAAC AGCAGACTCA TACTCAATGG GCACTACAGG CCTTATCAGA CGTTTTATAC
AAGCCTGGAT TGCTTAGTAG GGGAATAAGG CATTCTCTGA GGGGGCTTTC CACTTAGATT GAGAATTTTA TTTGAAAAGA
ATCTGGTTTA AATGGCATTG TGGTCCGAGG TAGCTGCTCT CCCCACTGAG AGCTGAGCCG AAATATAAGA ATAATATATT
T

SEO ID NO:1000: (Length of Sequence = 253 Nucleotides)

CCCTAGAGGA TITIGCOGICT TINATCIGCC AGTGACCIGA ACCACGCAGA TITITICAAGC AGGAGGGCCG ATTGGGCAAC CACAGCICCC GIGCICTCIC TITIGCAGTGC GCGGCTITICC CICCGAGAAG GACTITGAGG ACTACATTAG GIACGACAAC TGCTCGTCCA GCGIGCTGGC CGCCGGGGGC TTCGAGCAC CCTTCAACCA CAGCAAGGAG CCCCTGCCGN TGGCGGTGAG ACGTGCGGCC GGG

SEO ID NO:1001: (Length of Sequence = 164 Nucleotides)

AAACAGAGTA CTGGGATGTC ACTGTTGGAA AGTGCTCACA ATTTCTCATC TAAGCCGAAG TTGTCTGTNC TCCTTCCTAC CTTAACAGTT TCTCACTGCC TGAAGGCAGC TGCCAAAACC CCTCTAAGCA AGCAGCACTC TTACCCACCA AAATCTATGA CCTC

SEO ID NO: 1002: (Length of Sequence = 262 Nucleotides)

ATATCITCCT GAGGGAAAGT GGTAGAGITA AAGAGGGCAT AGAGAGCGCA CICATGCATT TACAACTCAG AATTITAAAA AAAGTTTACA TTTTGTCATT TGTACTTCAG ATGAATTINC TTATTAAAAG AAATAAGGCC ACAGAGGTAA ACTTAAGTCT CCIGITICCC AATGCCTACC CICCITCTC TCCTTTCCC TTTCTCTTTC CTAGAGAAAT CCTGCCTTCC TTTCCCTTCC CAGAGGAAC. TGGCATTATA AT

SEO ID NO:1003: (Length of Sequence = 267 Nucleotides)

GGAAAGAGGA GCAGGICIGG AGGITIGIGG AACCCAGICC CCTGCAGAAT CTGIAAAACC TAATAAATCA TGGITGIGGC CATTCICACG GIGGIGATIG TAATTAGACG ACCCCGGGA AGCCCAGACA CTCGGGGCCT GGAGITCCTC CCCCTGCCTG ACCTAGAAGC AGAACCGTTT TCAGGGAAAA AGATCCTCCC GGGITTTATT TCTCTCTTTC TTGAGGA

SEO ID NO:1004: (Length of Sequence = 277 Nucleotides)

GGCTCCTAAA CACITTCITC CIGAGAIGIT AAGCAAAGIA ATCATCCIGI CACIAGATAG AAGCGATGAA GATAAAGAAA AAGCAAGINC TITGATCAGI TITACICAAAC AGGAAGGGAT AGCCACAAGI GACAACITCA TGCAGGCITT CCIGAATGIN TITGGACCAGI GICCCAAACI GGAGGITGAC ATCCCITTGG TGAAATCCIA TITINGCACAG TITGCAGCIC GIGCCATCAT TTCAGAGCIN GGIGAGCATI TCAGAACIAG CICAACC

SEO ID NO:1005: (Length of Sequence = 271 Nucleotides)

GTTAGGTCAT TCACACATGG TGGAGACAGG AATCTACAGA CTAGGGATCA GCCCCAAGGC TATGATCTTT GINCTGCGCC
GCTCTACCCC TGAGCAGACG GGCCAGAGGT CCAGAGAGGG CTGTGCTGGC AGAGTTCATA CTTTGATAAC TGAACCCTAG
AGTAAGCCTG CCCTGGGAAA TNCCAGCTCA AGGGACTGAC AGGCATAATG CTCTTTGGGA GAGAAATGCC ACATCTGCAG
CGACACGNAT CCTTAACACT GTCCCAGGAC T

SEQ ID NO:1006: (Length of Sequence = 336 Nucleotides)

TATTITICAG ATATGGATAA AAATTGCTTA GGAGAGTAAA GAGAGACAAA GITGAAAGCA GGITTATAGI AGGIGITGIT
TTAGTGTTGA TCCCTTTTTG CTCCAATAAT CAAAGTGATA AATATTGAAA ATTGATTCAT GCAGCATTAC TTACTCCATT
CTAATTTTNA TATATGTCAA AAGTGCCATC TCCCAAACTG TGCTATCCCC TTCAGGAGAA GAGACTCTGC TGAAGTTTAT
AAGGTTGACA TATTGCCAGC TTCAATAATG TAAAGATGAA GTGTATACTG GAATTCTTAA TGCAAAATAAC AACTCTTTTG
GGAAGTAACC CCGTTT

SEO ID NO:1007: (Length of Sequence = 355 Nucleotides)

GECAAGAAG CGTCGGCGGC GCANTGCGGA TCCAGAAGGA CATAAACGGC AGCTTGTTCC TCCAGGCTGG TGGGCTINGT
GCCCTCGGCC TTGGGATGCT TATCACAGTC CTTTGGGACC AGAACACTGG ATATCAGTNC AGCCTCTGGG CCAGCTTCAG
AGGCTGTTAG AGCATCATTG CTGCTGTGGC TGATGCTTCC TTTCCTCAGT AAATCACAAA AGTCGTGTTG GCCATCCAGG
TTACCGAGTG ACTTAATTTC CAGAAAATTT AATATTGAGG TCATTATTGT ATGCATTTTC ACTGTTGCCA TTTTTTGTATC
CTCGTAGGTA GGTCTATGAA GTACCACTGG GGTCA

SEO ID NO:1008: (Length of Sequence = 269 Nucleotides)

ATATTIAAAG AGAGCITIGG TCAGIAAAAG TATAAAANCI GAGCITIGGI AAGGGIACAG TITATAAGGC CIAGAGAACA TCAAAACAIT CATTICATAT TGAATGIATA AATACCCACA TGIGAGAGCA CATGITGATI CAGITIGAGI ATGICIGCCI TGIGGNICIT TAAAACCITI CCAGCCIGGG TIATTITICCC AAGCITICIT TATAATTACA CCAGGGAAAG AGITACCNGG NATTAATCAA AACCAGACAG TGGACAATG

SEO ID NO:1009: (Length of Sequence = 295 Nucleotides)

GATAGCAGCA ACATACGITT GITTATICAT TIGCTIACIT ACAACAAACG ITTATICATI ATITATAATG CAACAAGCAT TAACCTAGGI GCIAAGGAGA GAAAAATGAG TAAGACACAG TITCITICCI CAAGGAAATC ACAGTCIGIT GGCAGAGATA AGITAGATG GIGCCIAATA TAGGTAACAC TIGCTACCTG CICCAAGAAC AAAGTTAAGC AAGIGATTAA GITAAGCAAT GCTIAGAGGI AGAGGATGIA AGANTGGCCT TAAAAAAATGT GICTICTGAG ATGAG

SEO ID NO:1010: (Length of Sequence = 356 Nucleotides)

GEATTTCCTC ATTIGTGCAA ATNAAATAGA AAAGGTAAAT NAGAAACTCA AGAGGTTTGT TACCTACTGT CAATGGAGTG
GGGAAAATGG GTGGAAAGAA GAAGGCAATA AGAAAAGAGT AACAGGAAAC GACAGTNGAC ACTICTGAGT ATACCTTGTG
GAATCTCTTT CACTCTTAGA ATCATAGTAA TAGANGANGA AAAAAGAACT CCCCAAACTG AAAAGGATAG ACCACTGGAA
CAACTTCAAG TGGTCTAATG TAGAAGCAAA TGGAGTCCCT CAAGGAAAGA AGAGAGGTTT TGAAAAGAAA AAAACATTTG
AAGAGTTAAC AGCGAAACAC TTTCCAAACT TAAAGG

SEO ID NO:1011: (Length of Sequence = 315 Nucleotides)

AGAGAGACAC AACTGTAATA GAGACACAGA GGAGTGGCAC ACAGAGACCA CCTCCCAGCT GGAGACAGTC AGGAAGGACT GAGGGAGAGG GGACAGCCAG GGCTCCACAC CCAGGCAAGA ATGGGGGAGG GCCTGTGGAA CAGAGAAGTC ATCAACACAC ACAGTTCAAA GTCTACCCTA GGCTAGGAGG GGGAGCAGGA AGAAGGGGCA GGGACGCAGG GGCCCGGCCT GCNAGCTCCC TGTTGGCCTC TNCTGCCCCC TGCTGGCTCC CNCTGCGGTG CTCAGGCAGG AAGAGAGGAG GCTGCTGTTT TTAGG

SEO ID NO:1012: (Length of Sequence = 272 Nucleotides)

CCCAACTCIA TAGCCCIAGI CAACCACTAA TCIATACCCI GINCTCIATA GATTIGCCTA GICTAGAAAT TITIGTATAAA TGAAATGCAT GCACTIGAAC TTITIGTATC TGGCITGCTI TICCATTIAG CATAAAGTIT TAAAGGICCN CATATGTTGC TGCATGIGIG CATTICTITIT TGICAACTGC NATATTACAT TGIATGGGAT ATACCATTIT GCCATATTIN GITAAATCCA TTCATCCAGI TGGIGGGACA GCAGGITATT TC

SEO ID NO:1013: (Length of Sequence = 252 Nucleotides)

TTTGTTAGTG TTTTCTACAC TACACTCAAG TTCATTCAGC ATGTCATTTC AACAACATGT GACGTGTCAA CTTCAAAAAT
TAAACAAACC AGCNAAACAC AACACTTGNC ACTACAAAGG AACTTGTTTT ATTCTCAACC TTCTATGATA GCTAAACTTC
TCTGNAATTT NGTTCCCCCA CACATCCCAC ATCTGGGCTC AATTTCCAGC TTCTGTTNTT CTGTTTTATT TCATCCAAAA
TGTTATTTTA AT

SEO ID NO:1014: (Length of Sequence = 210 Nucleotides)

GGGATACACT GACAGTAATG TGAAGCGCCA CACTTGCAGA TTTCAGGCCC AGCAGGTCCT GGNCAAGTGC CATTCCACCC
GGAACTTTTA ACCCAAGCGG TGGGGAAGGA AAGCCAAAAC TCCAAGCTGG CACTTTTTTG GGGTTCTGGG CCATGACACT
TCTTAGGCCT TCTGCTGCTG AACTTTTACA GGGACAAAAG GTACCCCACG

SEO ID NO:1015: (Length of Sequence = 222 Nucleotides)

GENAGAAG GITTCICAGA GGACAGCCIT ATTAATTICI CAGAGGATGA ATTIGNACAA TGGCAGCACG TIGCAGTCAC
AACITCITAA GGIGCITCAG AGGCTGATTG TICCTAGNAA CACAGAGTAA TGAACTATTC CIGAAGAGCA ATGAAACAGG
TITTGAATTI TNITGIATCT GNACITAGNA ACACATCAGI CCCCATCAAC CCATGGACTT CT

SEC (I) NO:1016: (Length of Sequence = 236 Nucleotides)

GAATAAACIG GITTGGAACC AGAAAAGTAC AAAAAAGAAC AGCIAGAGGI ACATAGACAC AGGACAATTA ATCAATITGG GAAAAAAAA AGNACITACI TICTCCATTG CIGCCIGAAT TGITTCCCAA TCIGCCTIGA AATGCCACTI TIGGCCAATA TITTINCAAA AATTIGACCA AAAAAGAAAA AGCACINAAT TTCCCITTIT ATACAAAAAT GNITAAGTAG GCAAGI

SEO ID NO:1017: (Length of Sequence = 259 Nucleotides)

GCTTCCCTAG ATTITCCCT AATTITGGAC CTATGIGGAC AAAAAAAAAA ATCTAGICCA AGCTTTCACT ACCTTCTTT
TTTATTCGCC TTCTGCTTCT GNGTTCCACA TGGGAACTIG AAGTGGTTTA TAAGAATGCC ATGCTGTGCA AATAGTAAAA
ATGAATTINC TGATTITTAA AAAAGCCCTC AGGAACGGCA TATGTATANG GTATGTATAT GAAAAAANGT GTTNAGGAAT
GCAGGAGGGA AACTAGGCG

SEO ID NO:1018: (Length of Sequence = 354 Nucleotides)

CTGGAGGAGG AGAAGAAGCA TCTGGAGTIT ATGAATCAGC TAAAAAAAATA TGATGACGAC ATTTCCCCAT CCGAGGACAA
AGACACTGAT TCTACCAAAG AGCCTCTGGA TGACCTTTTC CCCAATGATG AAGACGACCC AGGGCAAGGA ATCCAGCAGC
AGCACAGCAG TGCAGCCGCG GCTNCCCAGC AGGGCCGCTA CGAGATCCCC GCGCGGCTGC GGACGCTCCA CAACCTGGTG
ATCCAGTACG NCTCGCAGGG GCGCTACGAG GTAGCTGTGC CCCTNTNCAA GCAGGCCCTG GAGGACCTGG AGAAGACTTC
AGGACACGAC CCACCGGAC GTGGCCACCA TGCT

SEO ID NO:1019: (Length of Sequence = 393 Nucleotides)

GATGACCGAT TIGGCCATGG AAGACTTATC TICATGGCAC AGAGAGNYTG TSCAGAGATG AGTCAGACTC AGGGCTGAG
TAACAGCAGA GCAGAGAGTG CAGAAGTGGA CGCTCAGAAG CGAGTTTATG TGTGTYTTTY CCTCTATCTG CTGGCTGTGG
CTGGTACTGC AAACTATCCC AAAGTAACAG CCTAGTCAAT GAGGTATATG CTTCAGATCT GGCAAACTCT CTCTGCACAT
AAAACTGTTA TTCTTAGTTC TCTGAAAGAC CCCCACATCT TTGAAGTGTA AACTAAGAGC TACATTTTCC CTTTTACTAC
ATCTCCCTTA AAAGGAAAGC ACTACAAGAG CTTTAAAAATA GCAAGCTTCC CTATTCTAAG GGGAAANAGT CTT

SEO ID NO:1020: (Length of Sequence = 403 Nucleotides)

CTGAGGAAGA GAGGIGAAGI GGCATCIACC CAAAACACCI GIGIACIGGI TAATAAGGIC GGIAGITCCC ATTAATGAGC
TTGATGAAGG ATGGCACCIG ACAGGGCCIT AAATGANCIG ATGGAGIGAA TGINACCAGI GIGAATTAAA TTINCITTAT
ATATAATAAA TAGCIGIGGI TACACATTIT CAGAITINCI TIGICAGCIA TGGACATGGA ACAGCGGGAC TATGATTCIAC
GAACAGCACI CCATGIAGCI GCIGCAGAGG GIAATACAGG AACIACICCI ATCIATITCC TITICCAGAIT TAATTICIAC
TTAGIACTAA AATCIGCICT TTITITGGGG GIGGGACGGI ATAGGICATG TIGAAGITGI TAAATTITIT NCIGGAAGCC
TGC

SEO ID NO:1021: (Length of Sequence = 452 Nucleotides)

ATCGCAACCT GGCAGGGGTG TGGGGTTTGC TGGGGGCCTC TGTGGGGCCA TGATCTGAGG AGGGTATGTG GGGGGCGGGA GCTCAGCACA TTCCATGGCC TAGAGGGGCC ACACAGAGGC CCCAGTGGGA CCCATGGCGT GGAGGCAGGT ATGGGGAGTT KTGGGGGAGAT CCCAGGGTGG TCTGGGGGCCT GGAACCGGCC ATTKGGAGGC CCCAGCAGTT TCAKTGCCCA GGGCCTCCCT GCAGAGCCCAT GCATGGCAGA AGAAGTGTGT AGCATGAGCT GGTACACGCC CATGCCCATC AAGAAAGGCA GTGTGGTCAT GCGTKTGGAC ATCAGCAGCA ATGGCCTGGG GACCTTCATT CCAGATAAAA GGTTCCAGAT GATATCAACG GCTTCCTGAA GAGAGACCCG GGCAATAACA TCCATTCANT TGGGAGAGGA GGTCCGCAT NT

SEO ID NO:1022: (Length of Sequence = 413 Nucleotides)

AGCAACAGAA GAAAGGCCCA CATATATGCA AATGCCTGGT CACTATATCT GGCCCTGAAG AAGGAAGGAG TITGCAGGGC
TCAGGAGACT GGAAATTTT NCCAGGAGCT AGGAACGAGG GGITGGGAGA CGTTGGTCAA AGGGTACAAA GTCCCAGITA
TGCAGGATGA ATAAGTTCTG AAGACCTAAC ATACAGCCCA GTGACCATAG TGAATAACAC TGAATGANCA GTATACTCGA
AATTTGCTAA CAGAAGAGAT CTTAAGTGTT CTCATAACAC ACAAAACATA GCAACTGTAT GAGGTGATGG GTATATTAAT
TAGCCTGACT GTGGTTATAC ATTTTATCAA AATGTCACAC TGTGGCTGAG TNCAGAGGCT CATACCTATA ATCCCCANCA
TTTTTGGGGA GCT

SEO ID NO:1023: (Length of Sequence = 379 Nucleotides)

TCAAGICICA AAACITIAAA AGACAGIAGA TATTIGIGGI TITCTAGCTA AATGAGGGCC AAGATIGGNC TITTICAACT
AAATTGAATC ATGTAGIATA TCTGATTICA TAGCTITCTG GGGGAAAAGG GAGGATITGA ATTAGCAGCA GIGCAGGICA
GGAGCAGIAA AGAAGACAGI AGGAGGAGTC CAACTACAGA TGTGAATGAN CAGCCTCAGA GGAACACATG AGAAGGTGAC
CIGCIGITTA TCAGGAAGGC GGGGCTTTCT CTCTAAGATA CAAACCAAAT AGGAATCGTC AAATAGITCA AATTATCCGG
GGGAAAAAGC CTGAGCAATG ATCCCTCTGG AAAACAAAGC AGTTCTCAGG CAGCACCTT

SEO ID NO:1024: (Length of Sequence = 320 Nucleotides)

AGICIACAGG AACAAAGAA TCIAAGATGG CIGCTCAGCC TTGAAATGTA CATGITTTGC AGCAAAGTTG TTGAAGAACC
TTCCGTTGGC ACAGATTGTC CITTTTCACA AGCATACAGA AGCCTCCTTC CGCCCAGGNC TCTTCCGTTG CATCCTTGCA
AATGGCTCCC ATTTGACACA TTCCTAAGTC TAAGAGATAC CCACTAGGGC AGCTTGTACA GTTCTTGAAT CCTGGGCCAT
TGCACGTCAA ACAACTGATA TCACATTTTT TTGCAGGACT TGTATCCATT CTCTGAAGAG TGGTCAAAGT AATAGCTGAT

SEO ID NO:1025: (Length of Sequence = 368 Nucleotides)

TATTIAATCA TICITITCIT TGCCIGAAGA CITAAAACTA AGAAGATTAT TCGAATGGIG AATTAACTIG TIGAAGAGAC TATTCCAAAG GGATAGAATG AGACTAATTY CIGACTATGI TITGCIAGIG ATGGGIGGAT GGGAACAAAC ATTACAAGAA ATACCAAGAA AATACTAGA ACAAAGCATC CCAAACTGGI GGCTTAAAAA ACAGAAATTI GITTCATGGI TCTTGAGCCT AGAAGGICAA AATCAAGGIG TIGGCAGGAC CATGCTCTCT CIGAAACTCT AAGGGAGAAG CGITCTTTGI TICINCCT

SEQ ID NO:1026: (Length of Sequence = 379 Nucleotides)

GGTGCAGGTG CATACAGGAA GGACCATGTG GGCTCAGAGC AAGGGGGCGG CCATCTCCTA GCCAAGGAGG GAGGCTCCA GGGACCCCAA TCCTGCTGGC ACCTAGGCCT TGANCTTCCA GCCTCCAGAC TGGGAGAAAA TAACGTCTCA TTGTTAAAGC CCCCAGCAAA TGANTACAGA ACCTAGGAAG GGGCAATGAA TGANTGATAG GTGGAAGGGC TAAGAAGAAA AGAGGAGGGA GAGGAAAGAG ACGTGCTCAG ATCTGTCTCT NCTGGACATC CGATCCCAGG CTGTCTCTTC AGTGGGNCCA AGTCCAACTA GCAGTCAGCT CAGAAATAAT CCCTNAGGCA TCGAAGCTTT CACAAAGGAG GNCACAAAA

SEO ID NO:1027: (Length of Sequence = 411 Nucleotides)

GCCCTTGGCA CCTAGAAGCA GCCAGGAGGG AAGTACTGAC CATTTAAAAG TGGCAGATCT CCGGGCCCCA TTTCTGCAGC CTTCATTCTG CAACTCCAGG GAGGGTATTT TTNATTTGTG GGTTCAAAAA ATCTGTATAT ACAGTCTATG TGTTTAGAAT TTGTGTTGTA AGTAAACTAC AGCTTTGAGT TGGAAAGAAG TCACGGGTTG TAAAACCATT TGGATTTTTT TAAAACAAAA GTATTAATAA TCTGGAAGAC AGINTTGCCC AGGTCAGGAG TGTTTTCTTG GTGGTTCCAG CCCCCATCAA TTGAACTGTT TCTGGGCTCA GTCAGACACA GACATTCATC TGTGTCTGAC CAAATCAGGG GCTTTCCCCAC CTGTGGGGGA GGGCACAGTT AGGATGTTTT T

<u>SEQ ID NO:1028:</u> (Length of Sequence = 401 Nucleotides)

GATCATCATG CAGCTCAACT TTCTGTTGGA TTCCATGCTA AGCAAGCTAA CCTTATCCTG CATTGTTAGC ACTAGGCACC
CAGCTGCCAC CTCTCCATCC TGCTGCCCTT AGGCCACATG GGAGCAGTCC ATGCATGACA GCCTCTATCC TACAAGGCCT
ATGAGTATGG ATTGGGGGGG CCAAAAGGAA AAAGCTCCAT GTGCCTCTTT GTCTGCGTGG GTCAGAAGAG TTGTGCACGC
AGATTAGCAG GCCAAGGTCT GAGCCACAGC AGCATTTTTA TTTCAGATTT TGATAACTGT TTATATGTGT TGAAACCAAA
NTGNCATCTT TTTAAAGCTT ATCCATAAAA AAAAATAGAT GTCTTTTATA GTGGGAAAAC ACATGGGGGA AAAAATCATC
TATTTTGATG CAGCATTTGA TAATGNTTAA ACACCTCACA CCTCACTCTT

450

GAAAAATGCC AATTGGATGC CCTTAGGIGG AGGIGAGAAA ATGGCATCCT TGCCTTCTTC TCAATATGAA ACATTAACTA
GITGACAAAT TTATCCTTGT AGAAATGAAA ATCTATTTAA TCAGGGACCA GAAATGCCTG AGGAGATAAA TGCATCATTA
CAAAATTCTG CTTTTGAATC CTGGACATTA CAAGGGGGTA AATGCAGCAT GACTTTTTGT TAACCACATT CCAAAATGTG
GAACATTTCT TTTAGAAATG AAAATATTTC AAGGCTGATG TATTTTAACAN CTACACATTA TCAGGGNCAT ACATTGAGAG
TTCGCTTAAT TAAAGGTTGT TGGGCATCAA ATTATGTTTA GTAGGTTACT ATTCTCTAAC AACTCAAGGN TGCTTTAATG
G

SEO ID NO:1030: (Length of Sequence = 340 Nucleotides)

TTCCCGCTTG ATTCCAAGAA CCTCTTCGAT TTTAATTTIN ATTTTTAAAG AGGAGACGA TGGACTGAGC TGATCCGCAC CATGGAGTCT CGGGTCTTAC TGAGAACATT CTGTTTGANC TTCGGTCTCG GAGCAGTTTG GGGGCCTTGGT GTGGACCCTT CCCTACAGAT TGACGTCTTA ACAGAGTTAG AACTTGGGGA GTCCACGACC GGAGTGCGTC AGGTCCCGGG GCTGCATAAT GGGACGAAAG CCTTTNTCTT TCAAGATACT CCCAGAAGCA TAAAAGCATC CACTGCTACA GCTGAACAGT TTTTTCAGAA GCTTGAGAAA TAAAACATGA

SEO ID NO:1031: (Length of Sequence = 452 Nucleotides)

CCAGGGGAAG GNICCCAAGG GACGGCTGG CAGCCGGACA CATGGACAAA CTGATGGACC CAGGACTGAT CAGACAAAGC
TCTCATTAGC AGAATGTGGG CACCTGCACC CAGGGCCCAT ACCACGTCCC TGTGAGCAAA AAAGCTTAAA GTTCTCCCTC
CAGGCCCAGG GCCAAGAGGG CCTCACAAAG GGCTGCTGCC TTGAACTTGG CCTGGGGAAA TNAGACCCTG AGCGGACCAC
AGCCCTTGAG CCCTGGGGAGG AGCAGCCCAT CCAGNAGCAG CACAGCTNCC GAAACTTGAG GAAGAAGACT TCCACCCATA
GCACAAGAAC TGCAAATACT GTCTNGGNCA GAGCCACCAG AGGCCTTAGG CTTCTTAGGA CACCGATATC CCCCATTCAT
GGGGTTNGGA GGGAGTGGCT TTTTTAGGCA AGGGACTTTG TTAGAGAGGT TT

SEO ID NO:1032: (Length of Sequence = 411 Nucleotides)

GAATCIACAG AAACATAAAT TATACTGAGT TGTGCTGTAC TGGTTTGTGA GAACATCAGT GTATTAAGGA GAATGGTAGT
TTAATTTGAA TATTTAAAGA AAGTAATTTG AATGGTTCTA GTACTAGGGC CATTATTAAC TAGTAACATA GATTAGTGAC
TTCAACTGGG TGTCCTTATT ATCTGATTTG TCTGAAGTGA AAACTGTTAA GGTGCTCTTT TAAAATGTAT TTGGAAACAC
CATAGTTAGG GTAAATNCAA TGTCACAATT CACTCTTGCA TATTATTTNC TTAGGCCAAAT TTATGAATTC TAAGTTAGGC
CAAATTGAAG GTTTGGAGTT TTACATTGTG GCNGAGTCTA AATTCATGCG TTTGGCCAAGC ACCAAGGNCA TGGGGAAAGA
ATCTGGTATT T

SEO ID NO:1033: (Length of Sequence = 372 Nucleotides)

AGRICATAC AAAACACAAA TITATTATCT TACCATTCTG TGAGTCAAAA TTCCAAAATA GGTGTCACTA GGCTAAAATG
AAGGACTGCA TITININCCTG CAGGCTCCAG GAGAGATCTA TGTCTTACTC TITINCGGCTT CTAAAGGCTG CCCACATTCC
TCGACTAGTG GCGTCCCTCC TTCATCTCTA AACCCAGCAA CAACAGGTTG AGTCCTCATG TCACATCTTT NITIACCTTTC
TGTCATCTCA TCTCGCTGAC TGCTGCTGGG AAAAATTCTC CACTTTTAAG GGCTATCATG ATTAGACTAT GCCCACTAGA
TAATACAAGA TCTCAGATCC CTTAACTTCC ATCACATCTG CAAAAGTCGC TT

SEQ ID NO:1034: (Length of Sequence = 320 Nucleotides)

CGCCCCCCGA CGGACGCCCT CAACCCGCAA ATCCGCCGAG AGGTGGCGAG TGCAGTGAGC AGCTCCTACA GGAATGANTT
CAGGCCATGG ACGGACATCA AGCCTGTNAA ACCAATAAAG GCCAAGCCCC AGTACAAGCC CCCAGATGAT AAGATGGTTC
ATGAGACCAG CTACAGTGCT CAGTTCAAAG GAGAGGCCAG CAAGCCAACA ACAGCTGACA ATAAGGTCAT TGATCGCAGA
AGAWTACGCA GCCTCTACAG CGAACCCTTC AAGGAACCCC CAAAGGTGGA AAAACCTAGT KTTCAGAGTT TCAAACCAAA

SEO ID NO:1035: (Length of Sequence = 375 Nucleotides)

TTTTTTTTT TCAGTGGAAA ATAACTTINA TIGAGACCCC ACCAACTGCA AAANCTGINC CIGGCATTAA GCTCCTTCIN
CCTTTGCAAT TCGGTCTTC TTCAGTGGTC CCATGAATGC TTTCINCTCC TCCATGGTCT GGAAGCGGCC ATGGCCAAAC
TIGGAGGTGG TGTCAATGAA CTTAAGGTCA ATCTTCTCCA GAGCCCGCCG CTTCGTCTGC ACCAGCAAGG ACTTGCGGAG
GGTGAGCACC CGCTTCTTGG TTCCCACCAC ACAGCCTTTC AGCATGACAA AGTCATTGGT CACTTCACCA TAGTGGACAA
AGCCACCCAG AGGGTTGATG CTCTTGTMAG ATAGGTCATA GTCAGTGGAG GCATT

SEO ID NO:1036: (Length of Sequence = 304 Nucleotides)

CTCIAIGICT TCTTCITTT GCTTCTCCTC AAGTAGAG I TGACTTTTT GAAGGTTAGC TTCTTCTAAG AGTTGCATGC
TATTNCTGGC TCTTACAATA GCCTCATATC TCTNATTINC TAATTCATTG CACTTTGCTT GTAGCTCTCT GGTCTGTTTT
TCCAGATGTG TATTTNCGGN TCTNAATTGG TTGGCTTCTT GGATTGTCAC ACATAATCTT ATTTCTAATT GTTTTATACT
AGACTGTAAC TGCTGTAAAC GGCTATCTGA TGCTTCCTCT CTTNCATGGG CAGACACCAC ATCC

SEO ID NO:1037: (Length of Sequence = 341 Nucleotides)

CTATGAGGAC CAGCAATTAG ATTITATAGC AGTACTICCC ATTAAAGTGA ATAACCAAAA TCACTITAAG GTCAAGATCT
TAGTCAATAC ATTATGTAAA ANCATATACA ACAGACAATA CACCAGAAAC TAAATCTITT GCAACCTITT AAACTTATGA
TGAAAAAACAT TAATGTCAGC TCTAAAATGT ATTAAGCAGT TTTTACAAAA AAAATGTATA GAATACAGGA GCCAAAACAT
TTANCAATTA CCCTAACTTG CTGACACAGA NTACTATTAA TAAATAATAC TGATCANNEN AAAGTAATCA ATTTGAAAGT
GGTGGGGGTA GAAGGACAAC A

SEO ID NO:1038: (Length of Sequence = 281 Nucleotides)

SEO ID NO:1039: (Length of Sequence = 246 Nucleotides)

CCAATGATGG CAAACATGAG GATGGCAAAG AAGAGGAGCA GCCCAATCTG CAGGAGTGGA ACCATGGCCT TCATGATGGA CTTGAGCACC ACCTGCAAAC CTGGGGCCAG AACAGGGCAG GTCAGGAAGC AACGTGGGCA GGGTAGGGCA AGGAATTTNG TGGGGGCAGG GACAGANCAG CAGGAACCTA GCAGGGACAG CAAGGTGCTA AGCAGTNAGT GCTTTCAAGG GCAAAGGTTA GAGCTG

SEO ID NO:1040: (Length of Sequence = 399 Nucleotides)

GAGGICAAGA AGAGCITAAG AAAATATAGG AGATACTACA GCATGITIGG TICATGACCG GAATGATITA GIAAGAAGGA
AAAGCCAATA ATGTAAGAAA GGCGATTGCA GGAGCAAAGA CITTAAGGAA TAAAAAGGAC AAAATTGITT GITTCICAGG
GAAGTAATGA CAGGGGCTGA GCAGGAGCCA GGAAACCCAG CITTTAGCIT CAGNICTGCC TGACATTTAT TGGICATGIG
GCTCTGGGIG TATTCTCACT TCTCCTCCCT AAATAGCAAG AAGGAAAAGC CTCTTGGAGC CTCGTGTCTC TGCTTCTTTC
TGTACAATGG TTATGTTTCT GNICCGCTTA GCTGGTTAAT TATAGAATCA CCCTNGCTGG GGICTTTTGG GGACTGGCC

SEO ID NO:1041: (Length of Sequence = 324 Nucleotides)

CCATAAACAG TCCGTCACTG ACAAATGITG TTACGCAGCA CATTITATGC AGTGTGTGAC CATACACGAT ACACAGAGGA
AATTCAGGGC TTCTAGGAAA CCTTCTAAGG CCTCATCTCC CTAAGGGCAC CTGATGAGCC ATTCCTCACC CCTGCACTGC
ACCAGGACTC CAACACCACC ACCAAGGCTA ACCGCTGTGC ACTCTGGGCC CTGGGTCTGC AGTACCTGGC TCCCAAGCAC
ACCAGCATCT GAAAACTTGA CATCCTTGCC GATNITNOGG GGAGTATTGG TTGATTGCAG TGACAAATCG GCAGAAGTTC
CGGG

SEO ID NO:1042: (Length of Sequence = 212 Nucleotides)

ATCIGITTCT CAGAGATGAC ACTGCCAACA ATCACAGATT TGCATACAAT ACAGTTATGT ATTGGCTATT CACAATTTAC
AGTAGTGTT TTCCCTCTGA AAAATATAAG TNCAAAAGCT AAGTAAACAA TGAGGTACTG CCATTTGGGA TTTTTTTACAT
GGNCTTAGCT TAAAGAACTG GTCTTTAGCA AATATTCAAC AGNTCAACCT GA

SEO ID NO:1043: (Length of Sequence = 329 Nucleotides)

ACTIGGAGAA AGAAAAATTA GAGAATTCCA GATCCITAGA ATGCAGATCA GATCCAGAAT CICCIATCAA AAAAACAAGT
TTATCICCIA CITCIAAACT IGGATACICA TATAGIAGAG ATCIAGACCI IGCIAAGAAA AAACAIGCII CCCIGAGGCA
GACGGAGCIA TICCAGAIGC IGATAGANCC ACTITAAATC AIGCAGATCA TITCATCAAA ANIAGINCAG CAGCAAGAIG
AAGAGCGACG ICGGCAGCIG AGAGAGAGAG CICGICAGCI AATAGCAGAN GCICGATCIG GAGINAAGAT NICAGAACIT
CCCAGCIAT

SEO ID NO:1044: (Length of Sequence = 285 Nucleotides)

GITGAAGCIG TITINATITC ACACCCITCT GITTIAAAAC ATAGGGACIG ACAGGGAGAC CCAGGGCIGC AATCIGGGIG GIGCIACATI TGIAGACAAG GACAACITGC TGIATITITAA CCCAGAAACA TIAGAAAGIT TGICCITGAA CITICIGGCIC AGATTIAGAT GCATCITIGA AGIGCIGATA TITIGGCITAT CIGAAGCITT GGGATTATCA TITINCIAGIT ATGAAGGGAA TGAAAGIGIT CATAACATTT TIGCAGGIGG AAGGTAAAGI TGITG

SEO ID NO:1045: (Length of Sequence = 317 Nucleotides)

TOGETTACTE TAGTATTETA GTATAGTTTE AAGTCAGCTA GTGTGATGCC TCCAGCTTTE INCTITUTEC TCAGGATTGT
CTTGGCTATA CAAGGTCTTC TTTGATCCCA TATGAAATTT AAAGTAGTTT TINCTAATTC TGTGAAGAAT GTCAATGGTA
GTTTCATGGG TATAGTATTG AATCTATAAA TNATTTTGGG CAGTACOGNC ATTTTCATGA TATTGATTCT NCCTATCCAT
GATGATGGAA TCTTTTTCCA TTTGTTTGGG NCTTCTCTTA TTTCCTTGAG CAGTGGGTTT GTACTTTTTG GACAAGA

SEC ID NO: 1046: (Length of Sequence = 316 Mucleutides)

CCAGGIGCAA TCTCGGCTCA CTGCGACCIC TGCCTCCGCG TAGIGGGACT CCAGCIGIGC ACCACCCAGI CAGCCCCACG
CCCACCCIGC CAGGCGIGIG CACGGITCAG CGICACITTA CAGATGAGGA AACTNAGICI TIGGGAAGCI GACAAGGIGC
CTGACACAGG CCAGGGCAGG GNCCACCCIC ATGGGCTGIG CTGCAGCCIC TGCCTCGIGG GTCACGGCAC CCCATCTACG
AGGNGCCCCT CAAGGATGCG CCGTCGAGIN CCCGGGGCCC TTGGCATGIN CCTGGCAGAG AAGGCAGCTC AGGGGT

SEO ID NO:1047: (Length of Sequence = 261 Nucleotides)

CTTCCTCAAA CTCGGGTTCC AGCTGGGTCT CAAACTCAGG CTCCAACTGG GTCTCAAACT CGGGCTCCAC CTTGGTCCCA
AACTCGGGCT CCACCTCGGT CCCAAACTCT GTCACCACCT CTTTNTAGGT CTCANNCTCC GACTCCTCCC AGCCAGCGGT
GGTTGGCGGT ATNAGGCCCC AGGGCTCTAT GGTAGTGCTC AGGGTGNGTG GCAGGGGCAG GGGGCAGCGT GGGAGGCCACA
GTGTNGGGGG CCTAGGGTGG T

SEO ID NO:1048: (Length of Sequence = 390 Nucleotides)

GAGAACAAG AGAATGGAGG CCACATACAA TGGAGTAACA GAAGCTTTGC CTGTAGCTCA AGAACCAAGC CGAGAATCCA
CACCTCCTGA TTCACAGTTC AGTATTTTCG GCCACTTTAC TCAAATATTT TTATAAATTA TTTTTAAATC GGCAAAATAT
TTAAATTTCA TCCATTAAAT TTAAATTTCT AGATGCCCTA GTGGCATCCA GAACACATAT TTMGGGGAAA ATATTCTAAT
TTTTTTAAAC AGAAAAAGCT AGGNNCAGAT GATGCATTAA AAAAGTAGAA CACAGAGCTC TTAATTTAGG AATGATCAAA
ATAGGGTTGA TTCAACTATT ACCTTCTCCT AGGGATTATG GATCAACCCC TAGCAGCAGN CAAAGTCACA

SEO ID NO:1049: (Length of Sequence = 335 Nucleotides)

AAACTCACAA GIAAAATAAT GCATATTTAA GGGAAATATT ATACAGACIT TITCACACAG AAGTACATAA TANGATTTTT
TAAAATCTAT TGCCATTCAT TTATTTTTGC ACAAAAACGT ATAAATATGT CACCAGCTIT NCITAACTTA AAAAACTTAA
ATAAAAGACA CCAGATGAAA ACTACCCTIT GCTGCCATTT TTTTTTAAGT TTTTTTGTAG GGGTTTTTTA TTTTTGGRGT
TTTTTTNCTT TINCTGCTTA GAATTGGGTT TCTAGGGAAG AAAAGCCCCT GCATTAAAAA CAGNCCATTT AAAAAAAAAA
TTCAAAGTTC TGGAT

SEO ID NO:1050: (Length of Sequence = 265 Nucleotides)

AAAGGAGGG AGGAAGGAT GTGGAAAATA TGCAAGATAA ATTAAATNCT TAGTTAAAAA AAAAAAAAAG TTTCACCAAC
TGINCICCAT TACTGAGAAG CCCCCACACT GCCCCACTGT GCATATTCCT AGTATTCAT CCATGTCCTG CTCTGCTGTG
CTGCCCTACA AAAAANCCCT CCCGGGGGG AAAAAAAANC AAAAAANCGG TGTAGTGTGA ACTGCTGAAG AACTTAAATG
TTCAAGAGCA TCTTTAAAGT CTAGG

SEO ID NO:1051: (Length of Sequence = 298 Nucleotides)

ATTICIAAAA TECTCICAAA TACTAATATT ATACATICTC CCATTIATCC TCAAAAAACC CATGAGACTG GTGATGTAAT
TNCTGTGTTC ATTICACAGC TGTGGCAGTC AGTCTAAAGA CCAAGTGATT TGCTCAAAGT CATGGAACAC TTAAATGGCA
GAGCTAAGGC TTAAACCCAG AATTTAAAAA TTTTTTTTNAG CTTCINGTTT TINCCATTAT ACCAGTTTGG CCCTTCATTT
TATTCATGGG TTAAATTAAA TTATGGTAAC AAAGGGCCCC TGGTCACTTT GGACATTT

SEQ ID NO:1052: (Length of Sequence = 359 Nucleotides)

AAGGCAAACG TGGTACATCA TGACACCATG GGAATGACTC ATGCCAGCCA TAAAAAGAAT GAGAATTCTG TCCAGAATTG
GTTCCTTCCG GTGGGTTCTT GGTCTCGCTG ACTTCAAAAA TGAAAGCCAT GAACCCTCGT GGTGAGTGTT AACAGTTCCT
TCAAAGATGG TGTGTCCGGA GFTTNFTCCC TINCAGAATG TTCCAAATGT TATCCCAAGT TTCTTCCCTT CIUGIGGGTT

CGTGGTCTTG CCTGATTNTC AGGAGTGGGA GCCGCAGAAC CTTTGCCTGT GAAGTGTTAA CAGNNTCTTT AAAAGGTGGG TGGCATCTGG GAGTTTGTTC CATTTCCTCC CCAGTGGGG

SEO ID NO:1053: (Length of Sequence = 195 Nucleotides)

GITGCAAATT TGTATTCCCA GTGTTGGCAG GTGGGGTCCC AATGGGAGCT ATTTAGGTCA TGNAAGGTGG ATCCCTCATG
AAATAGATTA ATGGCCCTCC CTTCCAGGGT AAGTGNAATT NCTCACNCTG TTAAGTTCCC ACTGCAAGAA GGTGGTTGAC
CAAAAAGAAG CCNCGTGCCT CCCCCTAACC CTTGA

SEO ID NO:1054: (Length of Sequence = 319 Mucleotides)

ACAAAACCAG AIGITCICAC AAGAGCCCCI GCTIGCAGAT CACITACATA GITTITGGGG AAGCCAAGAT CGAAGATTIA TCCCAGCAAG TCACAACTAG CAGCIGCIGC AGAAATTCAA AGITCAAGGI GCAAGCIGIC TCAAACATIG CAAGCAAAAC ACACAGIACI TCCAACIGIT ACAAGAGGAG GAGIGCAAGA GGAAGAGGIT CGCIGAAACA GGIGITAGIA AGIINAAGGI ACATAGANIT GGITCAIGIT CACAAGCAAA TGIGITCGAG GCNCAAAGGN CAGITCCGAG CCCIGIAAGI AACAACAGI

SEO ID NO:1055: (Length of Sequence = 205 Nucleotides)

AACTCAAATA GGAGCTAAAA AAAAAAAAA GAATCAATGA AACAAAAAAT TAATTTTTIG AAAAACTAAA ATTGATAGCA CTAGCTAGAC TAACCAGCAA AAAAAGNTAG CAAGTACCTA AATGAAAANC TGNAAATGNA AAAAGGAGGA CATTTACAAA TNAACACAGG AAATACAAAA GTTCCATGCA GCGAACTTAT TCACG

SEO ID NO:1056: (Length of Sequence = 165 Nucleotides)

TGCAAATTAA TGATITCIGC TICACCAGAT TGGTAGAATG TATAAGATGG TGCATGGGGA AGCATITAAT ACCCAACAAT ATCIGATTAC ATTGAAATCA CAATGGCCTC CCTATCAAAT VAGTAGCGIT ACTGITTGAG CCTGVAAAAC TITGAAAATA ACTIG

SEO ID NO:1057: (Length of Sequence = 203 Nucleotides)

CTTTCATTCA AAACCCATCA CAGAAATGGA CAGCTTGGGT CTGTAACAAA GCATTCATGT TTTAGAGCAT AGGTCAGTAA TTGTATATGA GAGCATACAC TGGCTACATA CAAATTAACT GTTCAGRINCC ACAACTTTIN CAATGTTTAA AACAGGATNA AGCCTTCCCT GTGAAAAGCA GCACCTTTGT GAACGGTTCT TTG

SEO ID NO:1058: (Length of Sequence = 201 Nucleotides)

AGIGCAATAT GCACATTACT AAGCACAAAA AACAAGIGIA ATTCAGAACT ACTIGCATIT TITTIAGITA AATGCCAATG
AATTATTATG CCITAGITTT ATGAACCIGN CINCICCTIG TGCAATTCCT TCCITGCAAA TGAATTGACT TNAACGCCGT
NAGIGAATAG CCICAGNCTG TAGGATGICC TITCAAATTT T

SEO ID NO:1059: (Length of Sequence = 176 Nucleotides)

CCACACTGGC TACATACATG TITTCCAAAT TAAGITTTCT GATGGCTCAT CATTTGCCAT CTCTTCAAAT CCAGGTCCTT
TTAAAAAATCT ATGACCTTGG AATGAATGTG CCAGAATACC TGTATCCTGG AAGTCCATGC GAATNITGGC MTCGACTGCC
ATCCGCCATC TGCTGG

SEO ID NO:1060: (Length of Sequence = 277 Nucleotides)

GTCAGAAGCA GTTGTACAGT ATTACAGTUA GCCACAGAAG CTGTGTTGGG GGACAAGACC CAATCCTTCC CCACACCAGG CAAAGCAGTA TTGGACATTA GTTGGCATGT GGCTGGGCCC ACGTCCTTAT CCCCCAAGANC CTCTGGGGAAG ACCTACTTTT TGAATGGTTA ACCAACCCCT AGGCTACCAC TCTGTATTTC ATCAGGGGTA GGGGTATTAA ACCCCACATG CAAGTAAGGA
ACCCTTGCCC CCAGTGTGCA AATGGGATGG GGATGCT

SEO ID NO:1061: (Length of Sequence = 206 Nucleotides)

AGAAAGTAAG ATTCTCAGGG CAACAGTGTA CAGCAGAGTG GTTGCTCCAC AGACAGAGGA GGGCAGAGTG GCCCAGAGTA
TCAGCGTACA GCAAAGTGGG TGTTCCCATC CACAGGGGCA GCGCTATCTC ATAGGANAGA ACAACCCCTA GGAAGGCAAG
CGTCAGNCAG NCAGCAGTGN AACAGTCAAC AGTTAGCCAG TGTCAG

SEO ID NO: 1062: (Length of Sequence = 316 Nucleotides)

TINCCCICAC AGAGTITTAG TIAGAATCAC TITCICIATI TCCACAAATC CITCITITCT TICCITITAT TITCIAAAGT
GAATGICCAA GCAAAAAGGA AGCAAAAATG GICAAAGATC TCICITACAA TATAGIAATA AATITAINCA AACAACTIGG
AATICACCCI GIGCATIGAA AATNCAACTC CACACTGCAA ATTATGGCAT TITTICCCNC TCAAAGGAAT TAGIGAACTC
CATTGGATGC ATTCATACIN CIGITTAGGN AATAAGGGAA ACCGCTTIGT AAAAGINCAA CATGGCCTAG GAGITA

SEO ID NO:1063: (Length of Sequence = 314 Nucleotides)

ATGATCIGGT TTATGCTTCA GAAGAAGCAT AGTAGCTTCT ACAGAAAATA AATGATAGAA GGCAAAAGAG AAACATGGCG
AGTATTCCAC TCCAGTGTCT AGTCAAGAGA TTACAAGGGC CCTGGCATGA GGACAACAGT AGAAATNGTT AAAAGTGTAC
TGGATTGCAA AATATTACTT TTGGGCCAGG GCGCCGGNGG ..ACACGCCT ATTAATACCC AGCACTTINT GGAGGTGCAG
GGAGTTNCGA GTACCAGTCC TGGGCCAACA CGCNTGGAAA TCCTGTTGAA AAATATAAAA ATTAGCCGGG CCGT

SEO ID NO:1064: (Length of Sequence = 322 Nucleotides)

GAAACATTI GAACTAAGIN TGTAAAAATG GCAGATAATA ATTAACACTI GGTAGCAAGA AACGCTITCI GAAATACTGG
GAACACTGAC TIGITICACT GTAACTTATC ACCTAGIGCT GTATCIGCCA TAGIGCTCAC AATIGCAACT TTATATCCAA
CATGGGIGIT CCATTICTAT TIGGATAAAA TITACTGGAA ATATACTAGC AANGAAAAAC TGGICTTAAA ATGGCAAAAG
GCICIGGCAC TAAATTCACT GCTACTTAAC TTAGITTACT AATTAACTTC CITAATTATA GITTICCAAA TCCGCATGCA
CG

SEO ID NO:1065: (Length of Sequence = 297 Nucleotides)

CCCTENCAAC TCCTTGCATG GACTGATGCT GGAAACTGGG TCAGGGAGCT CCAGGAGGAA CCAGACAGGN TCCTGTTAGC AGGCTCACCA CAAGTTCTAA AGGGCACCAG CCTTGAGAAG GGCAGTTGGG ATGTGGCCAA ATGTGAAGCC AGGTTTNCTG GGATCCTGAC TGTCCCAGGT TACAAGTTCC TGGCCACTCT GTGAACCTTG GGCAAGTTAA CTTCCAACCT CTTTACAAGT TCCCTAATCT ATNAGGAAAC ANTTAGTNAC ATGACCTTCA TGGGAATTTA TTTATGA

SEO ID NO:1066: (Length of Sequence = 267 Nucleotides)

ACAATGGGAC TGTCAGAGCA GCCAGCTCCT CCCTGACTGC TCCACAGGAA GAGCCATCAA CAAAGCCAAT CCCTGGAGAT AGGCTCTGAA ACCAGGATAG AGACTCCTTC AATGGCTGCT GNTGGTTCCA CCATGTATCA TCCAGAGNAA TCACCCTGNG TGGGCATAGG TGGGCCTTGGGGCCT GCATGGTTTC ATGCCTGTAA ATCCCAG

SEO ID NO: 1067: (Length of Sequence = 220 Nucleotides)

AAAATGCAAT TGGTTTGTTA CTGAGTACTA TTCGTGGGAA GACAGCATCC TGNACTCCCT CTCTACAGAA TATTGGGAGT .
AAAAATGAAT GTCATCCCCG GTGGGAAATA TTATTGGGGG TTGGAAGCAC AGAGCACAGG AAAAATTAAG TNCAGGAAAC

AGACACTAAG AGTGCACTGG GCAGGTCTGA CTGCAGGTGA TGCAACTTGC CAGCCGTGGT

SEO ID NO:1068: (Length of Sequence = 412 Nucleotides)

TEGECCAGCAT CTGGGAACTT TGGGTTGTTG GACCAACTTC TTCCAACACG TGCGCACTGA TGGCCGGGGC CCCAGCCAGG
CCTGNCTGGA AGGGTCTTCC CCGNCCCGAG GGACTGTAGG GGGTCTCTAG GAAGCATCAC ATCAAGGTCC TCAGGTTAGA
TNCAGGNCAG CCCATTGACC CATTINAGGG GACAGCTGGA GGGAAGCCCG GAGTCCCTTG TTTCTTCAGC TGAG
234

TOGCTCATGA AGATAATITA ATGCTAGACT GATTICTGCA GAGTAAAATC TGGCATGINC TTCAGGAAGT TITCTITGTC
GCTGCATATG AAACATTAGG TCTCCTCCAT TTACATACTC TATAACAAAG AACAATCTGC TTTCTGTCTG AAAGCAAGAA
TGCAGCCTAA CAAGGAAAGG ATGATTGGAT GCCTGCTCAA ACACATGCTT CTCTGTCTGT ACCCAATCAA TATCCTCATC
ATCATTAACA AGCTCTTTTT TCACAACTTT CATTGCATAA ATACGATCTG TTTTTTTTTAA TCGAACCAAC AGTACTTTGG
CATAACTTCC TCTTCCTATT ACCCGGAGCA AATCAAAATC CTGAAGACCT AGACTGGATG AAGCTTTGCA CTTTCCCTGG
NGTCATTGCC TC

SEO ID NO:1070: (Length of Sequence = 358 Nucleotides)

SEO ID NO:1071: (Length of Sequence = 411 Nucleotides)

CTATTTATGA ATTOTOGCAT TOGTTTOGAA AACTCAACAC AGITAAATGA ACAGGAATTG AAGGTGCATG ATGGATGCGT
CCCTCATAGC ATTTAAATCT CITCCACTTG ATTAAAAATT CCTAGTTCCT CITCACTGAA TTGTTTAGAG TTTTTNAGCA
GCCTCTGCCC TGATTAAAAC AAATTAGCAT CAAAGATCCC CTGTTGAATG AGAAATCATT AATTGAGAAA CATGCAATGC
TCCTTAATTA CTTTTAGAAC AGTGAGAGAA CAAATAATCT CAGGTTCCAG AGGGCCCTGC CTGCTCTGCA CCGTGAACTC
ATTTCGTGTA GCTGCTGGAA TAAAACTCAA GTAGGCAAAC ACTATTTGGG GAATATCAAT GCAAGCTTTC AGTAAACACA
CTGTAGGATT G

SEO ID NO:1072: (Length of Sequence = 342 Nucleotides)

TCCCATTITT ATAATTATIG GAACATGAAA CIGTATITCT ATGAACTCAA TGATTITTITT CCATAAAATT ATATGCTAAG
AGAGTCACCA CAAAACTATG AATTCTCTCC CGAATTATIT TTGCTTCTTT GGAGCACCAT AGTCTTTGTT CAAATCACAA
CATGAAACTG TTGCTGCAAT GCTAAAGATG TGAATCCACC ACTATCAATA CGGTCAGGGT AAAACCTGGA GCCACATGTT
ATTCAAGTTA TTTTTGTTAT CTAATGATTG ACATGAAAAT AAAATAGTAA GCCAATATTA AATTTGTAGG CATAGTTGCC
CCACCINAAA AGTGTTTACA AA

SEQ ID NO:1073: (Length of Sequence = 217 Nucleotides)

GUTTTCIGIC CIGGCTAGGA TAATGCAAGC NCTITICAGA TGANICAGAA TAGGAGAAAA TAGGCTGJIA AAACAGGACC
TGATTIACCA GGNACTAAAC AATTACACTC CCATTIACAA TGCTTIACAAA MUTTTCACAC GNIACAGCAA CCTUTAAGAT
GGAAAGGGAA AGCGATTITT INTICAACAA GIGGGCCACC AGATGAACCA AATTAGA

SEO ID NO:1074: (Length of Sequence = 379 Nucleotides)

GETTAAAATT TCATCGGAAT GTATAAGCTT ATTTATTAGT GTATTTAATG GTTCATCAAT TGATAAAACA GGTGTAGCAA
ATACATGCCT TCCTTTTGGG GGATGGGCCT GGTTAATCTC CAAATTGGCC GTTTGGAACA ACTCATCATT ACTGTACAAA
GAAGGTACCA CTTGGTGGGA ACTTTCACTT TTTAACAAAAA CTGGTTCATA TTTCTCACTT GCATAGGAAA TGGTCAAACC
TTGAAGTGAA GCAGAGTGCA TATGAGAAGT AGGCGACACA TCAAAAACTG GTACAGATGT AGAGTGCAGC ATGTTTTCAC
TTGAAGCAGA ATTTGATACA ATGAGGATGC AACCATTGTA GANCTAAATT TATCAACTT

SEO ID NO:1075: (Length of Sequence = 345 Nucleotides)

ATTAAGITGA CAGICCAATC AGAAATATIT AAACAAAGIT TCACIACITA AACACCATCI AAATATACIT TITGITATAT
TCCCAGCAGA AATTGATGGC AAGGAATCAT ATATCCCATC AAAACCGTAT TITTCCCCCT AAAAGGCAGT TTAGATGINC
TCATTCIAGG NITTCCATCI CTCTCCTCCA CCATTCCAAT TCCCAGAGTA CCTCTACAAA TATCCCTGCT TACCAGTAGA
NCTATTTGCT TTAACAATCI TTCTGTGGGT AAGGAGATGC ATATGCCAAT GTGAAAACTA TGGAGGGGGA CTCCTGCCTT
CAAAGGCTGA CTAGAAACCA TTGGA

SEO ID NO:1076: (Length of Sequence = 286 Nucleotides)

TTTTTTTTGA GATGGAGICT CGCTCTGING CCCAGTGIGG AGTGCAGTGG CATGATCTCG GCTCACTGCA AGCNCCGCCT
CCTGGGTTCA TGCCATINIC CTGCCTCACC CTCCCGAGTA GCTTGGACTA CAGGCGCCTG CNACCACGCC CAGCTAATTT
MTINIGIGIG TGTTTTTGGC AGAGACAGGG TTTCACCATG TTGGCCAGAA TGGTCTCTAT CTCCTGACCT CGTGATCCAC
CCGCCTTGGC CTCCCAAGGT GGTGGGATTA CAGGCGTAAA TMACCG

SEO ID NO:1077: (Length of Sequence = 366 Nucleotides)

TCACATAGGT CACATITTAC CCATGAAACC TITCTAAATT ACCITTIGCA TITNITGCCT ATCCTTCTAC ATCATCATAC
TTCGTCAATT AAAGTCACTT TITTGGGTAA CATTCAGAA ATTGGGATTC CTCTTACAAT TGCTATCAGA CAGAAGCCAA
TTATGATGTT GTCATTGCTT ACACATGGGN AAATAACAAA ACTGCCAGCA TGACATTTGC ATATGACAGT CAACAGCCTG
AAAGAAATTC CCAGAAATGA TACTGGAGCA TTCATTTCAC CCTCTAGGAN CCAAATGGAC TNGGAAGGAA GTAGAAGATG
GGGAATCCCT AAGCAGCAGT CAAAGTAGGC TGGCTTTTCA TAATTT

SEO ID NO:1078: (Length of Sequence = 380 Nucleotides)

GITTAAGTGC GAAGATTITA TTAGGCGGTA CAATTCCAAG GTGGTAAGGG TGAAAGGAAA GGCGAAGGCA GGCAAATACA
TTATTGAGCT GAAAACAACT TTACATTCAA GGACAGCTTC CAGACAAGCC ATGTAGAACC AGCATGCCTT GGGACTGTNT
GGATGGCAGG GAGACGAGTT TCTATGCTGA CCACTTCATG CTTTCTSCCC CCTTTGGGGA AAGTATGCCT CACGGACCTC
TAACTCTCCC ACTTCTCTGG GGGCAGCACC TGACCCCTCC CGGCAACTNC TAGGCAAGAG CATTCTGTTC CTTCAAATTT
YTCACCTGAG TCTGAGTCAG AGCATYCCAT CATCAGAGCC TCTGTCAAGG AGGCAGTGCT

SEO ID NO:1079: (Length of Sequence = 439 Nucleotides)

CTTAAGTTAC TGAAATTGAA ACACCCTTG TCCTTCTCGG CGGGGCTTC CTGGTCTGIN CTTTACTTGG CTTTTTTCCT
TCCCGTCTTA GCCTCACCCC CTTGTCAACC AGATTGAGTT GCTATAGCTT GATGCAGGGA CCCAGTGAAG TTTCTCCGTT
AAAGATTGGG AGTCGTCGAA ATGTTTAGAT TCTTTTAGGA AAGGAATTAT TTTCCCCCCT TTTACAGGGT AGTAACTTCT
CCACAGAAGT GCCAATATGG CAAAATTACA CAAGAAAACA GTATTGCAAT GACACCATTA CATAAGGAAC ATTGAACTGT
TAGAGGAGTG CTCTTCCAAA CAAAACAAAA ATGTCTCTGG GTTTCTCTAG ACGTTACTCAA ACGTTAATAAC CTTTCTCTAT
TNAAATCAGG GTAACCCCTT TCTGTATTTG AGTGCAGTG

SEO ID NO:1080: (Length of Sequence = 419 Mucleotides)

CTGAACTCCC TGAAAATAGG AAGTCTCAAT TAAAAAATCA ATTTGTCATA GTCCACATAA AGATAATCAA TACATTTTGC
TCTCAGTCCT TGGGATGGTT TTTGTAAATA ATATTATCTT GACAAAAACA AACAGGAAGA TCCCACCCCC AACACATACC
ACATTCCAAT GTTACCTGGN ATTAAAATAT ATACCAACAT GCATCTTTAG GTTACTCTGG TCCATGGTTT CCTCCAGTGG
CAATGGAATT TACAAAAATG TAAGACGTAA TAGATATATA ATTATCTTTT TNCCTAAATG AAACTAGCCT TAAAAACTGG
TACATAATGG TTCCTGGGTT CANTGATCAA AATTATGGAN GTACACTTAA CCTATCTTCC ATTGAGTGGC TTTAAATGGG
ACCTTAAACT GTGGACTCC

SEO ID NO:1081: (Length of Sequence = 411 Nucleotides)

CAGCGITTAA ACCAAAGGCG CACTAAACCT CGTAAGCGCA TGANCAGAIT TAAAGAGAAA GAAAACTCTG AGTGTGCCTT
TAGGGTCTTA CITCCIAGIG ACCCTGTGCA GGAGGGGCGG GATGAGTTTC CAGAGCATAG AACTCCTTCA GCAAGCATAC
TTGAGGAACC ACTGACAGAG CAAAATCATG CTGACTGCTT AGATTCAGCT GGGCCACGGT TAAACGTTTG TNATAAATCC
AGTGCCAGCA TTGGTGACAT GGAAAAGGAG CCAGGAATTC CCAGTTTGAC ACCACAGGCT GAGCTCCCTG AACCAGCTGT
GCGGTCAGAG AAGAAACGCC TTAGGNAGCC AAGCAAAGTG GCTTTTGGAA TATACAGAAG AATATGATCA GATATTTGCT
CCCTTAAGGAA A

SEO ID NO:1082: (Length of Sequence = 350 Nucleotides)

CTGTGAGGGC ACAAGTGTAG GTATCTTINC AAGTTCTCTA GGTGATTCTA GAATGCAGCA GGGTTGAGAT GCTCTGCCTT
AGGGGTAGAG AGGTGGGAAC ACTGACAGGT TCTGCAAAAC ATCTCTGAAC AGCTGCTGGT GTCTTTTTCT GTACTTCAAG
TTTCACGGCA CATCTGATAG CTGINCCGAA AGGGAAGAGA GAATTACGTG GGCTAGGCTG GTTTGAAGGT TTGCNTAAGN
TTTGGCTTGA GCGACTTTAA CACGTTTATT TCAAAGTAAT TTGTGTTTGT AGCCCCACTA AAGTAATTTT GGGCCAGNAA
AGGTTCAAAA TACGGTTTTC CCTACTTAAG

SEO ID NO:1083: (Length of Sequence = 430 Nucleotides)

SEO ID NO:1084: (Length of Sequence = 369 Nucleotides)

AATGGAAGAA GTGAAAAAGA ACAACACAAA GAAAATAAAG AAGTAACCTC TTTCACCCAC TGAAATAATC TCTGGAAAAG
ATATTAGCAA TCATGCAGCT TATAAATATC TAAAGGGCTA GAATTGAGGA ATTTATAAGA NTAANTTTTT TTTTCAACAC
ATAAAATACA ACATGGGAAA TAAGATGTTT TTTACTAACA GGCAAACACT TGAGGNGTCC TCTTCAAAGA CTACAGTGGA
TGAAAGACCA GTTATCCAAA GGAAACGGTT AGTAGAAATA TAAAGTTAGT CCCACACAAA ATTAAAATGG TGCTCAATGC
AGATTATCTA TCATTANACC ATTTTTAAAG GCAATTTNTT ATTTAAAAT

SEC IT NO: 1085. (Length of Sequence = 413 Pucleorides)

ATACCTITINA GCTGGCATAA TITAACGTTC TAATTATCCC TTAATCATAA GCTGTACGAT TCTATAATTA AAAAGITAAT GCCTTCTTAA TGTCTATNCT AGTAGAAGAA TGATGAGAAA ATAATAGTAT AGATTAGTIT TGGTCTCTAC TCATTITGCC TTCTGATTAT ATTACAACTC CAGCTGGTGA CAAGATGGCT GTGTAAATCT TGAAATCACT GAGCATTCAT TTTAGCTTCT
CATTGAAAGG TAGATATTCA GTATGAATTG TAAACTGGCA TTAAGGGAGA AAGTAGGAAT AATCAAACTT GATCTGAGAA
TTACTTGCTG GTGCATTTCC TCAATGCATA GTAATATCCT TATGANGATG CAGATGCAAA AGTGGGTTTT GGAGGTGGAT
AAGGAGGGCA GCT

SEO ID NO:1086: (Length of Sequence = 277 Nucleotides)

SEO ID NO:1087: (Length of Sequence = 360 Nucleotides)

TITITITITI TITITITGAG ACATTGICIC ACTGCGICGC CCAGGCTGGA GIGCAGTGGT GCAATCTTGG CTCACTGCAA
CCTCIAAATC CCAGGITCAA GCGATCCTCT CACCTCAGCC TCCGGAGGGC NIGGGATTAC AGGIGTGAGC CACCGCGCCC
GGCAGCATTA TITITITAAAG ATCIGIGATA GIGCATGITG TGCIAGITCT TITAATACAGA CTATATTGIA TTCCATGICA
GTITITIAAAG TITATTTCCC TATIGATGGC ATTTAATTCC AACTITTAGA TAAAAGGATG TACTGGACAT TITTATAATT
TTTTTGGGGG ACCATGTAAG AGTITTTCTA GGGGGAATTC

SEO ID NO:1088: (Length of Sequence = 209 Nucleotides)

CTGGGACCAG CTGGAACAGA AGTGGTAAAG GATAACTAGC TACCTGCACC GCCAGAGATC AGGNTCAGGG TGAAGCTGGT
TTCCCAGCAG GCGAAGTGAA GGAAAGTGGT TNGAAAGGAA GAGGAGGAGC AGGAGATGGT AGGTCCCTCG CCTNTCTCCC
NTNCTACCCT GGAA.NATAA GTGTCAGGTT CATACTTAAC CACCCCCTT

SEO ID NO:1089: (Length of Sequence = 409 Nucleotides)

TITTIGCTCAC AGCTACATCT TCAGAGGTGA GAACCATGCA TGACACAGAG AAGATGCTCA CTGATGGATT TAATGAGTCA AACATGAAG AATCAATGAG TGCCGGAAAT AAACAGGATA GGTGGCAGCA TAGCATGCCC TTAAGANCAT GGCTGTGGAT TCAAATCCCA GACCAATCAC TGANTITCAA GCCACITTGC CTCTCTGAGC CTCTGTTTTC TCATCTGTCA AGTGGCAATA ACAATAAATG GTACGTGCCT CATAGGGGCA CCTTGAGGAT TAAAAGAGAG GGTTTCAATA AATCAAGTAC TGATTTCAAA ACCTGGCACA TAGTAGGCAC TCAGCACATG GNCCTTATAT ACTINTGGGC CAGCAGCGGC TGGGGCTCAT CCCTCCCTGG CTGGGTCCA

SEQ ID NO:1090: (Length of Sequence = 337 Nucleotides)

GAACCINICC CCATTGGAGA GGATGAGGAT GATGATCIGG ACCAGGAGAC ATTCAGCATA TGTAAGGAGA GGATGAGGCC
CGINAAAAAG GCACTGAAAC AGCTCGACAA ACCTGACAAG GGGCTCAACG TGCAAGANCA GCTGGAACAC ACCCGGAACT
GCCTGCTGAA AATCGGAGAC CGGATAGCCG AGTGCCTTAA AGCCTACTCA GATCAGGAGC ACATCAAACT CTGGAGGAGG
AACCTATGGA TTTTTGTTTC CAAGTTTACA GAATTTAATG CTCGAAAACT GCATAAGTTA TNCAAGATGG CTCATAAGNA
AAGGTCTCAA GAAGAAG

SEO ID NO:1091: (Length of Sequence = 411 Nucleotides)

CCACTACCAC AGGAAATCTC TATACCCITC TIGGCTTTC CTTTAATGT AATCITCTA MAGCTTCAA GATAATCTTT
AATCAGGCAT GCTGAAATCT ATCTAACCTA TTAGTCACTA ATTATATTCT TCAAGCCTAT ATATTAATGT TTCINCTGTT
GTAAATTCAT GATCATAAAG TTTTGGACCT GGCCATCAAT ACTAAAGCAC TGATATTTAG TTTTAGGTGA TACTTGGGCA

TAAATACAAA CACGGGATAT ATTINGTCAT AGAAAAAAAT GIGITACTGC ATTATTITGC ACTICTGAAG GACTGCAAAC ATTITTTCAAG CACAATAAGC AAATTCTTCT TICAAAAAAGG NATACTTING CACATATGIN AGGITTGGAA AATGACTAGG NCCCTAGGGA G

SEO ID NO:1092: (Length of Sequence = 349 Nucleotides)

AAAGAAAATG CCTTGGGAAG ACAGATGCAT TITINCCCAC TGGTGTTGCA ATTGCTCAAA TATTTTNAGG ATGAATATCC
TCACCTTGGA GGCAAGTTTT TAAGAGTGAA TTTGAATTAC TGGAGCAGTG AACAATTATT TAGAGTCTGG TATAAGTGAA
GAAAAGAATC ATGACCNGTA AGCTGTCTTG NAGGTACCAG CAAACTGNCT CTAAAATTTA TATGGAAAGG CAAAGGGGTT
AGAATAGCCA ACATAATACT GNAGAAGTTG GAAGACTCAC ACTATCCAAT TTCAAGGTTT ACTGTAAAGC TACAGTAACC
AAGGCAATGT GGCACTGGTG AAAAAGTAA

SEO ID NO:1093: (Length of Sequence = 400 Nucleotides)

GGACCITGIT TIACATICIG GATTITCCIT TITACITICC TAATGATGIA ATTIAACINC TICCIGIATI TNCCATATIT
CCIATAAAAT GGIAGITAGA TCIAAAAGCI TGATTIACIT ATTICAGAIT TCIAGICAAG GGIACICAAT AGATTGIATI
TCCITTIGCC TCACACGGAG GIGCATAATG TCIGCCIGGC CIGTAGIGAT GCIAAGGITG ATCATTCIGI TCAGGIGGCA
TCAGICIGIG ATAACITCCI GIAAGAATCG TICATTAACC TITCATCIAA TGGNICCATT CATTCATGAT CITTAACTGA
ATCCCIGITA TITCATTAGG GAATAGCAAA ATAATGATTI TCIAATICIG TNATTCCITT CACATTTATT AACIGIAATT

SEO ID NO:1094: (Length of Sequence = 414 Nucleotides)

GICAGINITC CATAACTGIT TCCTGCTGAC AAAGGGGCAG TGGTGATGGT TCTNTGGGTC TTGGCCTCTT GCTAGCTGTC
ACAGCAGGAG GGTGGCTTIN TGGATTGGTG AAAGTGGTAT CCAGCCAGGT CCAAGAGAGA CAGGGGCAGG GTTTINCCAA
TGCCAAATAT ACTTCAGCAG TAGAAGCCAC AAGATTACAT TATTAAATTG TCCCAAGAGT CCCCCAGTGC AAACCCCCAGC
TGAACGCCAT TTAGTTATAT NCTGGTGCGT TTTCCTTCTG CAGGAACTCA AACCAAGGTT TCTTATGTGT GCTTGAGTTG
GGGGCCAGAG TGACAACTGG TAGAAAACTA TGTTATTCCC CAGCTANGAG AACAGAGGGG AGGGGTACAT GATAGTAGGG
AGTCAAGTTT ACAA

SEO ID NO:1095: (Length of Sequence = 387 Nucleotides)

GATCIGGCAA CCAATTATGI AAATAGICAT ATGAATCCII CAGAATGGAT AACACAGCII INCIGACIGG TGIGAAATAG
TITICAGGIG CICATTCIII ACITCATTAG CITATCIITAT ATCATTAGCI TATCCICCAT TCAGGIATAA CAGATCIITII
TITICIGATA AATATGGCAG TITAGGGAAA TAAACTATGG CATAATATGC TAGGCCATIC TICTAGGCCA CGCITCIITIG
ATTGIAACCI TAAACCCIIT ATCAGAACCI AAACAACTII TCAAAAGATC TATACATATI TNNATCCAAT GITTAAGGCT
ATGAGGAAAT CATTATGGIC ACICITCATI TITNICACCI GATAATGATC TCGNCAAAAA TGITGAG

SEO ID NO:1096: (Length of Sequence = 416 Nucleotides)

AACTTAAAGC TITAGAATGA TIGAGGIAGC TCAGAGCAAA AACCAAAAGG AAAGGIGATA TGIAGATGIC TGGGCACTCA CATCATAGGT TIGGATAGCT AGTTTAGGAG TAAGTGAAAC ATTTTAGAAG AGCATTTATG TTAACCTTGA CAATAGGATG GGAGATTCTT AACCCCCCTT GTAATATGCA CCGATTGATT CINAGTTAAA ATACACCACA GTGACAGTGA TATCATCCCT GTACATCCTC GCCAAGTCCT CTGGCAATGT CAGCATCGCC GNCAGCCGCT CTGCCTCCAT CTCCCCATAC TCATTTTTCC CGATCGCATC TCTGGATCAGC CGCCTGGCTG CATTTTGCTC AGCCTCGTGC AGCCTCGG CTTTCCTCTG CAGCAGCAGG CTCTGCCAATG AGNCCC

SEO ID NO:1097: (Length of Sequence = 406 Nucleotides)

CTGACCTCGT GATCCGCCCA CCTCGGCCTC CCGAAATGCT GGGATTACAG GCGTGAACCA CTGCGCCCGG CATGATTGGC
ATTTTGGGCT AAATAGTTTC TGTCCACAGG ACCGTCTTGT GCAGTGCAGG TCTTTTAGCA TCCTGGCCAC TCATAGTGCC
CGTGGTTCTC AGTAGAAGCT GTAGAGGATG TTGGGAAATT GGGGTGGGTT GGTCACAGTG CCTGGCATCT GTCTCAGGGT
AAGGGCTTNG GAGGCTCAAG TGCAGAGTCG TATCTGGATG CCAGCAACAC CCTGTTGAGA AACTTTCTAC TATGGTATGC
TCATCATTCT CTGAAGATGT CAGGGCCTGT TTGTTTGTTT GCCTGTTTCT CTCACTTTTG CCTTATAATC AGTTCTTCCT
TGTTGG

SEO ID NO:1098: (Length of Sequence = 326 Nucleotides)

GECCCGCCCG CCTCGGCCTC CCAAAGTGCT GGGATTACAG GCATGAGCCA CCGCGCCCGG CCATGTAACA ACTITTATAA
AGTTATGATG TGATGAGTTT TGGTGTAATG TTTTTCCCTC CTCTACCTAA AACCCTTCAT GCCTTCCCAT TGCTCTTAGA
AAACACTCCC CAATCTGAAA CATGACCATT TTTCGTTTIN ACACCCAGAT TGCTCCAGAC TTGGTCAGTT GGTGTCCCTC
CAAGCTGGTG CTGGTGTCCT TCCGNCATNC CCCTATTAGT TTTTGAGCAC CTGGACCAGT AAGGTGTTCA GTCTCACTTT
GCACTT

SEO ID NO:1099: (Length of Sequence = 342 Nucleotides)

GAAAACGAAC AAGITICAGC AGICIAGCCI TIGGAIGACC TATITGAAAA CCACIGAAAG TOGIGGAGGA AIGGGCAAGA ACCACICAT GAITCINCAG GCCATIGCIA ACGAACAGCI CATIGCIACA ACCAGICCAG AGGITITATI CCCICTACIC CGACCAATGA AATAGACCIG AGITATGCIT CCTITCATII AATITCIGCA GAIAAATAGI TICCIGAGCA AIGGAIGCIA TGCCIGGATA CCAGICICCA CITIGCACGC CGGAACTGCC TIGGGNCCAC AGITACAGAA AAAATGIAAA CICAGAGIGA TCCIIGIGIA TATIGCIATA GA

SEQ ID NO:1100: (Length of Sequence = 301 Nucleotides)

ATCGCTTGAG CCCAGGAGIT CGAGACCAGC CTGGGCAATG TGACAAAACC CAATCTCTAC AAAAAATACA AAAGANTTAG
TCAGGTATGG TGGCGCATGA CTGCAGTCTC AGCTACTTGG TAGGCTGAGG TAAAAAGGNTC ACCTGAGCCC GGGAAGTAGA
GGCACAGTGA GCCATCATTG TGTGCCACTG GACTCCAGCA TAGGGAAGGG GACTGAGACC GTCTCAAAAA AATTAAATAG
AAAGTCTTCT TTTTTTAAAA TNCTGCAATT CATGAGAAAA CTGCACTCAC ACATAGTGTG T

SEO ID NO:1101: (Length of Sequence = 300 Nucleotides)

TTAAGTCAAA GGCTAGAAAT GATTAAACTT AGTGAAGAAG ACATGTCAAA AGCCGAGAGA GGCCAAAAGC TAGGCCTCTT
ATGCCTAACA GTCAGAAATG CAAAAGNAAA ATTATTGAAG GAAATTAAAA GTGAAACAAC CTTATTGCTG ATATGCAGAC
AGTTTTAATA TTCTGGATGG AAGATCAAAC CAGCCACATT TCCTTAAGTC AAAGCCTAAT CCAGAACAAA ATCCTAACTC
TCTTCAATTC TTACGANGGC TGAGAGAGGT AAGGAAGTTG CAGAAAAGTT TTGAACTAGC

SEQ ID NO:1102: (Length of Sequence = 174 Nucleotides)

GAGATCGAGA CCATCCTGGC TAACACGGTG AAACCCCCTC TCTACTAAAA ATCCAAAAAA ATTAGCCGGG CGTTGCGGCT GGCGCTTGIN GTCCCAGNTA CTCCGGAGGC TGAGGCAGGA GAATAGCGTG AACCCTGNGN GGCGGGNTTG CAGTGAGCCC GAGATCGGGC CACT

SFO ID NO 1103: (Length of Sequence = 360 Nucleotides)

ACAAGGICIT GCTATGITGC CCAAGCTTGT CTCAAACTCC TGGICTCAAG CAATCCTTCT GCCCTGGCCC TCCCAAAGIT CTGGGIATTA CAGGIGTGAG CCAGCACTCC TGGCCCATCA CAGTCTTAAA ACCAAAAGIT CTGTGTCCGA GGAAAACCAG SEO ID NO:1104: (Length of Sequence = 400 Nucleotides)

GGAAGCAAGA CAAAAAAGGA CAGAAAAGCI GGITTAGGIC TICAGIAIGI TIATITGICC CICACATAGC GGCITGAICT
GICIGCCIGI GIGITCACAT AGITAACCAG AAACGCIAGG AGGAAGIIGI ACCAGIGGGA TACCICCTTA GGIGCCAAAG
TITTATITIG AGAAATAATA TIACITTCCI CITCIGAAAT AAAATAATAA TAATANGANI GAAACCCCCA AACCACAGIG
TGAGICICAG GITAGCATIT GAAAACATCI CCAGAGACAT TGITATICCI CAGGAGGIIT CCCIGACICC TIAAATGIGG
CIGAIGITTC AIGGITAATI TATITANITI TAATAAGGIA TGAGCAATCG AAGGGGCIGA TCAICIGAGG TITTIGIACCT

SEO ID NO:1105: (Length of Sequence = 380 Nucleotides)

CCCAGTGCAG AGGGTGACCA AGCCTGGGAA GGCCCCAGGG GTCCAACACC AAAATTAAAG GTTTATTATA CACAAGAGGA
CGTTCTGTCC CTCANAGTGG CTGGCCACCC TCCCCACTCT GGCCAAGGTC CTGCACAGAG GTTTGTCCTC AAGGGTGACC
CTTCTTGGCC GCCCACAGCT AGACCTCCGG CGGAGAGGCA CGCAGTCCAT GCTGCTGGCA CAAGTCACTT GGNCAGCTNC
TCAGCCACCG NITTGGCATC TTGTCCTTNA GGTAGGCGCC TTINITGCCA TTCAGACTTG AGTTCCAGCC ACTCATAGAA
TGGGACGTCC ACTATCAGGA AGNCTGCAGC CACTTATGTG TCGCCGGGCC AGAACAAAGG

SEQ ID NO:1106: (Length of Sequence = 334 Nucleotides)

TGIATCINIT TGANITCIAA ACCCITGCIT TICCCACTGC AAATTGITIT GGCTAGAGAG CAGGCTATTA AGACATTCIA
GCCAAGCCAA TITCCTGAGA GINCTGCAGG TACCAGGTGT TGCTGGAGCC CAGCATCTGC TCAGAGGAAG GCAGAGAGAC
CCAGAGGAAC CCAGAATGAG ACACTCATTT TIGCATCCTC AGITTCCAAA TTAATTTINT AGCTCCTGGT TAGGACCCGA
NTINCAGAGA CCAGGCAGCT NTCCAACAAG AATGCTGACA GGTTTCATTG TCCTCTAGGG TAGCTGCTGN CTAAAGAATA
TTTGATTTTT TGGG

SEO ID NO:1107: (Length of Sequence = 346 Nucleotides)

CTCACTITAG TITGAGICAA TATCIGAGAA AAAAAGAATG GAGIAAAAGC ACAGAAAGCA AAACTIAGCI TAGAAAATTAT
TTCCTAATIC AAAAAATGAA CAAGICAGAT TCTGTAAAGA TATCCAGIGA AATCITGAAG AAATATIGIA TIGATIATTA
ATTAANCIGA TIGGAAAGIG ATCITGGGIT CACAATGAGG TIGITGAACA AGTAGCATTI TCATACAATI GCAAACCAAT
TCAATGITTI TNCATACACT GITTACATTI CITTNCAAAA TITGATTICT TCTTCGIGAT CCTAGICAAA TICIGCCTTC
TCAGIAAATC TITATCAAGT TIGCAG

SEO ID NO:1108: (Length of Sequence = 410 Nucleotides)

TCCTGGCGAC GTGGTCCCGG TAGGAGACTT AGACCTGAGC TGGATCTGTT GACCCCAAAT TGTGCTTTTC CCACCAAGAA
GAAAGACAGG GAGAGAAACA TTAGTACAAG TNCTGAACTA AAATATAGCA GAGAAGAAAC ATAATCTCTG AAATCACACA
GCTATTCGGT TTCAAAGCGT TCCTAGCGCC CAGCTCTCCT AACTCCTGGC CAGTGTTCTT GACATTATGG TAATACATAA
AGACTTTGTT TCCGCTGGTG TGTGTCTGTG GGAAGCCTCT GACTCACCTC CGTGCTCCAG TAGCACCCTG TGCAAGCCTT
CCAATGTCGA CCTTATTGCG TGGCGCGGAA GATAATAGTT TGGATTNCTC TGCAAGTCAG ATAATAGCTG TATCCACTTA
CTTGGCACAT

SEO ID NO:1109: (Length of Sequence = 352 Nucleotides)

COCTOGINIG TOCCACACAA ATGITTAAGA AGTCACTGCA ATGITACTCCC CGGCTCTGAT GAAAAGAAGC CCCTGGCACA
AAAGATTCCA GTGCCCCTGA AGAGGCTCCC TTCCTCCTGT GGGCTCTCCT AGAAAACCAG CGGGACGGCC TCCCTGCTGA
TACCGTCTAT AACCTTAGGG GGCCCTCGGG CAGGCAAACT CATCTCGGTG ATGCTGTAG ATGCTAACAC TGGCCAATTC
AATGNCACAN CTACTGGTTA CCCCTTTTGA GGGGCATTTC TCCAGACAGA AGGCCCCTTG AAGCCTAGGT AGGGCAGGNT
CAGAGATACA CCCGTNTTTG TCTCGAAGGC TT

SEO ID NO:1110: (Length of Sequence = 218 Nucleotides)

GTTTINITCA TITATINNICT CCCCATAAAA CAGTATGTAC AAGGGTTTGA TICAGGGGAG AGAAAGGATA TATGAAGACA CATTCITCCC TCTTCTATTC TCTTACCTGG TTAGAAATAA ATAGGCATAT AGTCCNGTTT ATTATGGGCA GGAAGGTAGG TAAAAGATCAC CTAAGINCTT ATGGCGTGTT GGCTTTGGCA CATGGAGAAT GAGTTTTT

SEO ID NO:1111: (Length of Sequence = 211 Nucleotides)

TITIGCITTAT GAAGAAGCIG GCCIAGGIAG GGITACAAAT GGGITITTACI GAACITAAAC AGCIAATIGC TACATCICIG AAAATAATCA GAATAGAAAA ATAGAIGGAA AAAITITCAAA CCCACIGIAA GAGACIAACA TAAAITCCAAT TCCAAAAGCI GITAATCATA CCAICIAAAA AGAAAACIGI CGACIAATCA IGIGIITTACA A

SEO ID NO:1112: (Length of Sequence = 360 Nucleotides)

CCCTATAATA GTCCCGTGAA TAGGCCTAGC AGTGGGATTT TTGTGTTATA GGCGAGGAAA TAAACACTCC TTTTGCTGAG
ACTAAAGAGC CAGGTTGGGG TCTCTGGACA CATAGTGCAA TCAAGGGAGG CTTAAGACAG CAGAGGCCCT CAGAGAAGAC
GTTCATTCTC CCAGCTACTT GCTAAGCACG TNCCGTGTGA TCTGGGCAGT CCTGGGCACA CCAGTGGTGA AAATACATGG
TCCTGCCTGC CTGCCTGGAG CTTCTATTTT CCTNATGGGA GAATGCTGCT CCATTTTGTT ATTGGAGGAA CTTTTTGCAA
GCAAAGCCTN TTTGGGGAAA AATGGCGGGC TAGAAACCTG

SEO ID NO:1113: (Length of Sequence = 448 Nucleotides)

GCGGGTACTG CGTTAGTGAT TAGAGTTTTT NCCCTGCCGG AGGTGGGATA CACGGTAGCA TCATGGTCGA GGAGGTACAG
AAACATTCTG TACACACCCT TGINITCAGG TCGTTGAAGA GGACCCATGA CATGTTTGTA GCTGATAATG GAAAACCTGT
GCCTTTAGAT GAAGAGAGTC ACAAACGAAA AATGGCAATC AAGCTTCGTA ATGAGTATGG TCCTGTNTTG CATATGCCTA
CTTCAAAAGA AAATCTTAAA GAGAAGGGTC CTCAGANTGC AACGGGATTC ATATGTTCAT AAACAGTACC CTGCCAATCA
AGGACAAGAA GTTGAATACT TTGTGGCAGG TACACATCCA TACCCACCAG GACCTGGGGT TNNTTTTGAC AGCAGATACT
AAGTTCCNGA GGATGCCCAG TGATCAGNTG CACAGTCCTA GCGGTGGC

SEO ID NO:1114: (Length of Sequence = 268 Nucleotides)

GECCECCAGE TESTISCCATE NICTINITIN CIGISCISCE GECGATETES TCATCAGCCI GAGACCCAGA TAGGCIGAAC CCCGACTGAT GIAGGITGGE CACAGGAGGG ACGAGGAGGG ACGAGGGGG GCACACCGIG GAGACCCAGG GCACACCGIG GATTCINCGA CAGCCIGITG CGAGCTITGA TCCTCTIGIA GACAAAGT

SEO ID NO:1115: (Length of Sequence = 342 Nucleotides)

ATCAGIGCT TCTTCAGCTC TATCTGGGAC ACCATCTIGA CCAAACACCA AGAAGGCATC TACAACACCA TCTGCCTGGN
ACTCCTCG GGCCTGCCAC TCTTGGTCAT CATCACACTC CTCTTCATCT GTTGCCATTG CTCCTGGTCTC CCCTCAGCCA
AGAGGGGGCCA GCAGCCAGAG AAGAAAAAGA AGAAGAAGAA GAAGAAGGAT GAAGAAGACC TCTGGTTCTC TGCTCAACCC

AAGCTITCTC CAGATGGAGA AGAGACCATC ACTGCCTGTT TAGTTAGGCA GGAANGCAGA GGTGTTTCCT TTCTGGGGGCT
AAAGNCTCCT TCTGACCACA CA

SEO ID NO:1116: (Length of Sequence = 416 Nucleotides)

CACCITIGGG AGGIAGGGAT CATAGITCCA CITCATIGAT GAGGAAAACT GIAGIGCAGA GATGGCATAC ACTGICCAAG
AACAIGGIGG TGGATGGAAC CCAAACCCCA ACTITIGCIC CCATGINCIC TGICCACIGG CIATGGCICI TGCCCCIGIG
TACAGATACA GGCTCIGGAC AAGITCACCA AATCCCTTAG GCTTCAGCCC CCTCATCIGC AGAATAGIGG CITGGATTCC
ACCATCITCA AGGICCCIGC CAGCITINAT TIATITAAAT TIGGATTIAT TAAGCAGGAA AAAAAGIAAT GGGAGITIGI
GGGTACCAAT GGATTAAAGG GGGINAAATC TGGNGGCING TGAGTAAAAT TAGGGTCCCC AAATGG

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AAGGACCGGG ATTCTGATGA AGCCGTGTTT CTCACTGCCT GAAGTTTCCC TTTGGAGTTC CAAAGTAAAG GACACATAAG CAACACTTCC AAAAACAAGG GAACAAGGTG GTTTATTGTA AAAACAGGAA ATGGTGCATG TCATTGAGAA CTATTTTAAT GCAGCTATGA AAAGGGAAAA AAGTGCCCAG TTCTTGATTT CTTAGATACT GAAGAGGACG TAGCATTTCA TTTATCAAAAT ATAAGGAAAA TTATTCACCA TTTTGAAGCT CACCCTAGAC TATGAAAAAT ATATTCACTG CAGAGCAATT ACTTCTGTCA TTACCTGAAG TGATCAGTAT CTATCTTCCT TGTCATAGCA TGCATCTCTC AAAAAGGCCT CCACTCCTTT CCCTCACATC TGTGGTCATC ATGATT

SEO ID NO:1118: (Length of Sequence = 379 Nucleotides)

GACAGCAGCG TGTCCAGGGC GGCTGTGGAG GTGTTCGGGA AGCTGAAGGA CCTAAACTGC CCCTTCCTCG AGGGTCTGTA
TATCACAGAG CCAAAGACAA TTCAGGAACT GCTGTGCAGC CCCTCAGAGT ACCGCTTGGA GATCCTAGAG TGGATGTGTA
CCCGGGTCTG GCCCTCACTG CAGGACAGGT TCAGCTCACT GAAAGGGGTC CCAACAGAGG TGAAGATCCA AGAAATGACG
AAGCTGGGCC ACGAGCTGAT GCTGGTGCGC CCAGAAGCAAG
CTACACTTCA TGGACCAGTT GCTGGATACC ATCCGGAGGC CTGACCATTG GGTGCTCCA

SEO ID NO:1119: (Length of Sequence = 233 Nucleotides)

CAATATTCAA GAGTCTTTAT TGAAGACTTG AGATGGGACT TCCAACTCAG AGGATGIGGG AATCCCAGCT CAAATGATAC
AGGATAAACT GGGATGGGCT AGGATGGACA GGCTGTGGAT ATGGGAGTCA TGGGTCAAAG TCTTATCCCA GATGGCTCCA
GGTACAGTGG GCTTCCTGGG CTGGAAGCTG GGTCCTCCCC ACTTCATTCT GCTCAAAGCT TCTTGAAGGA GCT

SEO ID NO:1120: (Length of Sequence = 325 Nucleotides)

GAAAAAACAA CCATACCCIT NCIITTGAGG AAAACITACA AACITTATAA AGAATAACA TGAATCINCI TAGAAAGIIC CAAGAITAACA TACACAACIG ANICACCICT TCATATATAG GCACCACACA CATAAAGAIG TAGCCITAAAT CACAATCACT TCICACCAGG GATGGAGAIA GGAATTTACA TTCITGACIT CATTAAGICT CIAATTTGGC AAAAACCICC AAGCCITTTA TACACATGCT GCGIGIAGGC CAGATCTCAC TCATTCITAT AATTGIGCAA ATAATATGGA GACCAAAAGG GCAGGGITTT CATTT

SEO ID NO:1121: (Length of Sequence = 161 Nucleotides)

ATTAGTATT TWITCHGUAT GEOCHAGCIC TGITCAACAA CAAATTITMC TAGTICTUT TAATTITMAT TEGHALACAA ATGGAAGCAC AATGITATAA GGAAAGGIAA TITTAAGCIA ACAACCAGIG CACAGCCICA GGITTIAAAT TACAACCACA SEO ID NO:1122: (Length of Sequence = 181 Nucleotides)

CATCTITTIA CATCAAAGTA CTACCAAGTA AAGAATTTAA AAATTACTIG TCTAGTCATG ATATATTTIC CTNCTGCTGC
TGAAAAATCC CTGTCTTATT ATTTCATGIN CCTTTATCAT TCATTTGATG ACACTGACAG CAACTTGCTG AACAAGTTTA
AGAATAGCTG ATATTTACTG A

SEO ID NO:1123: (Length of Sequence = 174 Nucleotides)

CCCTAGAGTT AAATTTCACC CATGAAACAT CAGCCACATG TCATATCAAT TCAAGTGTGT AACATTGATA TAATCGGGTA CACCACAGCA GCACTGACAG AAACAGAAAT GATTCAGAGA AAGCCAATTA AAACAGCCAG GGGATAAAGC AGATCTGTAT GACATTAGCT TTTT

SEQ ID NO:1124: (Length of Sequence = 232 Nucleotides)

CTTTTAGCAG AGACGGGTT TCACCATGTT GGCCAGGATG GTCTCTTGAC CTCGTGATCC ACCCGCCTCG GCCTCTCCAA GTGCTGAGAT TACAGGCATG AGCCACCGCG CCTGGCCCAG GGAAGGCATT TTTNAAGAAA TAATAGTTGA ATTGAGATCT GATAAAAGAA GTAGGAGCAA AATNGGGGGG GTGCAGTTTT CCAAGAAGAG AAGACAGTAC ATATAAAGGG CT

SEO ID NO:1125: (Length of Sequence = 233 Nucleotides)

GATACTATGG GITCAGTGAC ATAGAGACAC AATTGAATTA GCAATGAGCT TCACTCAGGA GCCAGAGAAT GGGTTTNINT CTAAGAGATG TITTAAGTAA CATTTAAATG GCACTGCTGA TTGATACCAG CATCAGGAAG CTGAGGACAA GAGCTCTCTG AGAAGGAAGT TGCCATATTA CAGAAGTGAG GTGACCAAGC ACTINTTGTA GGTCTGTACA TITTAGACATT AAT

SEO ID NO:1126: (Length of Sequence = 258 Nucleotides)

TITITITIT TOCTAGGGGC CGCAAGACGG CTAATITATI ATAATTCCTC CGCCGCAGIT GCCCTCTGGC GCCA...CGC
AGAACGGAGC GCCCGGGATG CAGGAGGAGA GCCTGCAGGG CTCCTTGGGT AGAACTGCAC TTCAGCAATA ATGGGAACGG
GGCCAGCGTT CCAGCCTCGG TTTCTATTTA TAATGGAGAC ATGGAAAAAA TACTGCTGGA CGCACAGCAT GAGTCTGGAC
GGATTAGCTC CAAGAGCTCT CACT

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GIGIGAATAG GCAAGCACIT TGITTGITGI ACTAAGGAAC TCAAAATGAT AGGCTTTTIG TCACCATGIG CITCCAGGNI CICIGITGCA TGAGCAGAGA TAGAGGATCI TGCACAAACA ATTAAATGCI CTAGCCATAA GIAGIGCAAG TTTCCNITGC TTGAAATTTA CIGCIGATAG CCACTIGGNC ACACCITACT TCCAGAGGCI AGGAAGTACA GITTTCCCAC AGTCTAAGAA TGAAAGAGNA TTAACCACAG TAATGCATAG CACTCATACC ATGGATGACT GGATAATTTT AAAAGAATGG GAATATGCAA G

ACAGCTCAAT GACTTATCAC AAAGCAAAGC CCCAAGAAGT CACCACCAG CTCCAGAAAT AACACATTGA AAAGCTAGAA
AAATCTCAAA TIGACATCCT AACACCACAA CTAAAGGNIC TAGAGAACCA AGAGTAAACA AACCACAAAG CTAGCAGAAG
ACAAGAAATA ACCAAGCTCA GAGCAGAACT GAAGGCAATA AAGACACAAA AAACCTTTAA AAATAGTCAA TGAATCCAGG
AGCTGTTTTT TIGAAAAA

SEO TD NO:1129: (Length of Sequence = 163 Nucleotides)

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CAGTGGTACA GCAGCAGCAG ACACGCATCG CAGAGCTGGA GAAGACGTCA GCTGAACACA AACACCAGCT GGCGGAGAGA AGCAAGACAT CCANCTGCTA AAGGCATACA TGCATGCAAT CCGCAGTGTC AACCCCAACC TTCAGAACCT GGAGGAGACA ATT

SEO ID NO:1130: (Length of Sequence = 382 Nucleotides)

TTITITITIT TTITITITIT TTITITITIT TTITITACIGI TCAAACAGCA AIGITTAGIT GIACAACACA TAAAGICIAG CAACAATIAC AGGACCAGIT TGAGIGICIG TTIGCIIGIT TICAATIGGG AAAITTAACI GIAATGICAC CGIAAGATIG GCTGGGACTG GIAACATITA AGAAACGGGT TGINCITGCA TCCCCTAGGC GIGGGCCTCT TGCTCCATCA GGACITGGIT GIAGATGAAT GGCCCACAAG TCACCAGCCT TTGAGCAAGT TGIGTCCAGG TGGAGACAGG AAGAGGGTGG GCAAAGGGGA ATTCTATAAA GACACAGIGT NTGGGGCAGT GGCAGTCAAC ATTCGCAAAC ATTCATGCAT CT

SEO ID NO:1131: (Length of Sequence = 406 Nucleotides)

ATGCTAATTC AGGCTCCACA GATAGINCTG GTGATGGGGT TACATTTCCA TTTAAACCAG AATCCTGGAA GCCTACTGAT
ACTGAAGGTA AGAAGCAGTA TGACAGGGAG TTTCTNCTGG ACTTCCAGTT CATGCCTGCC TGTATACAAA AACCAGAGGG
CCTGCCTCCT ATCAGINATG TGGTTCTTGA CAAGATCAAC CAACCCAAAT TGCCAATGCG AACTCTGGAT CCTCGAATTT
TGCCTCGAGG ACCAGACTTT ACACCAGCCT TINCTGATTT TGGAAGGCAG ACACCTGGTG GAAGAGGCGT ACCTTTTTTG
AATGTTGGGT CACGAAGATC TCAACCTGGN CAAAGAAGAG AACCCAGAAA GATCATCACA GTTCTGTAAA AGAAGGTGTA
CACCTG

SEO ID NO:1132: (Length of Sequence = 400 Nucleotides)

ATTITIGGIT ACTICAGGCA GGAGGGIAGA CATAGCACTI ATCIGGATIG GATGIAGCCA CAGGATIAGA ATTGITGGGI CATAAAATAT GIACATGITC AGCITIAGIA GATCITGCCT AGAGTITAAA AAATTAAAAA TIAAAATAT TITITAAATTA CAATAAAATTC AGCIAATTIT AATTITAGAT AATTITITATA ATGIAGTIGA TCTTGGITTT AACCAGAGCA TGINGCIGGA TTITINCTCCC CAATCGAACA CAGTAGAGG AGAAGGIGGC GGGITCTTAG TGATACCATG CACTITTITT TAGAACTICA GGGCTGTATC CCTTCATTTA CAATGITAGA TGAAAAATAC TAAAGAAGGG ATNGIGGIGG TGGIGAGGGA GGCAGGAGAG

SEO ID NO:1133: (Length of Sequence = 347 Nucleotides)

CCCAGGGGGG GCCATCCATG GACGAGCTCA TCCAGCAGAG CCAGTGGAAC CTCCAGCAGC AGGAGCAGCA CTTGCTGGGG CTCAGACAGG AGCAAGTGAC AGGAGCAGCA CTTGCTGGGG TGGAGCAGCA GATGCAGAAG CTTCTGGAGG AGACCCAGCT AGACATGAAC GATTTTAACA ACCTCCTGCA GCCCATCATC GACACGTGCA CCAAGGACGC CATCTCGGCC GGGAAGAACT GGWTGTTCAG CAATGCCAAG TCCCCGCCGC ACTGTGAGCT GATGGCCGGA ACCGCATCAC GGCTNATGGG GGCACACTTC GAGCTGCGGC TGCACCT

SEO ID NO:1134: (Length of Sequence = 389 Nucleotides)

GGTCCAGGCC TGCAAGACTT GCCTAGTGAG AAGATATAGG AATGGGAACC CAGGTAACAG TCTGGCCACT TINCCATAGG GCTGCTGCAG TATGCCCAGG GCCCGCTCCA GTCTCTAGTA GCCTCANATT TTCCAGTACC TGGAGTTATC ATCAGTGAAG CCTGTGAAAAC AGCAAAGATG GCAGCCTACC GCTCCCTTTG GAAGCTTTGC CCTAGGGAGG TATGAATGAN CTINTTGCTG GCCCAAACAC ACCTGTAGGA GGTGGCTNGA GACCCCAGTT TGGAGGTTTT GCCGCCTTGAG GAGGAATGGC ATTGCGAAAGATGAC TGCTTAAAAAA AGCAGTCTGG GCCTCATTTT TATAGAGCAG CTGTGCTAAT GCTGAGGGGT CCACAATCA

SED ID NO:1135: (Length of Sequence = 402 Nucleotides)

GCAGAGGCTT AAAGAGTGCT TATTCACTGA GCCTTGCCCT TNCTTACTCC TTCCTGGGAA CCCATTTGGC AACAAGTGAA
GAAACCTAGG CCAGCCTNCT TGAAGATGAG GGACCAACGG AGAGAGAGGC TCTGCTGTCC TAGCCCTCCC ACAGAATAAG
TAAGCCTAGC CAACACCACG TGGAGCAGAG ATGAACCATC TCAGTTGAGC CCAGCCCAAA TTGCTGACCA AAAGAATTGG
GAACAAATAA ATAATTATTG TTTTAAGCTA CTGTGTTTCT GGGTGGTTTT GTATATAATA GTAGCTACCT GATACATTGG
GATGACCCCA ATTACTTGAA CTTCTCTTAG GCCTGTTTTA TCACGTGCAA ATAGGGGGATA ATTTTAGTAA TTTNGGGTTG

SEO ID NO:1136: (Length of Sequence = 381 Nucleotides)

CAGGIGGGAG CCACCACGCC CAACCCAGAA CICTITITAT TITGCAAAAT TGAAATTCTA CCCATTAAAT AGCAACTCTN
CTTTTCCCTT CTCCCCCAAG CCCTTGGCAA CTGCTTTTCC ATTTCTATGA CAATCTCTAC TCTAGATACC TCATAGAGGG
TGAATCATAC AGIATTTGTC CTTTTATGAC TGGCTTATTT CACTTAGCTG CTATATTATT AATACCAGCT TTCTGGGGAT
ATAATTCACA AACTGCAGAA TTGAATGGTT TINAGTCTAT TCACATCGGA TATGTTTTTG AAGAGACAGT AAAACCAATC
CTTTTTTCCT TAGGTTCTCA GACACACAC TGCTTCTTTA TCTGGCAAGT CCCGTTATAA A

SEO ID NO:1137: (Length of Sequence = 325 Nucleotides)

TATTITITAT ATAGACAGGE TOTTGITATG TIGCOCCGAC TGGTCTCGAA CCCCTAGTCT CAAGCCATCC CCCTGCCTTG
GCCTTCCATT CCTCTACTTT ATACCACGGT TATTCACCAA GCTTGTCTTT GTTCAGTGTA CTTCCTCATG GAAAAACTGA
GGTGATATTT ACCCTGGTTT TTCTACCAGT GTGTAACTGT CGCTAGTACC AGCTCAAAAA ATAAGAAATG AATAAATGAG
TGATGACTAT CACTATGTTG CTCAGGCTGG ACTTGAACCC CTGGGTTCCA GTGATCCTCC CGCCTCAGCC TTCCAAGTAG
CTGGG

SEO ID NO:1138: (Length of Sequence = 422 Nucleotides)

CAACACACT TAGCCTTAAC AACAAAGAGC TAATCTTATG TAAAGAACTC TTACAATTCA GAAAGAAAAA GATCCTAGTG
AAAATGTGGG CAAGAGATAG CAAAAAACCA GCCATATGAT AATAATAGTC AATAAGTGAA TCTGAATGAT GTTATCTNCT
TTTGTCATTT TAGAAATACA AATAAAAATG ATGATGAATG CNCTTGCTTA CTAAATTAGC AAAANCTGGG AAAAGATGAT
GATATTCAGG GTCAGATAAA GGGAAAAGGG TGCCCTTCTA TTGCAGTTTG GAAAGTAAAT TGGCACTGAC TTTTAGTGGG
GATAGTCTTG TAATATGGGT CAAANGTCTT CAAATCGTGT CCACATTTTG GGGCCTGCAA TTCCACTTCT AGGGATTTAT
TCTAAGGAAG TACCTAAAAA AT

SEO ID NO:1139: (Length of Sequence = 367 Nucleotides)

ATACCGAGAA GCATGCAAGC GGTGGCTCCA CCGTCCACAT CCATCCCCAA GCTGCTCCTG TTGTCTGCAG ACACGTTTTG
GATACACTCA TTCAATTGGC CAAGGTATTT CCCAGCCACT TCACACAGCA GCGGACCAAA GAAACAAACT GTGAGAGTNA
TCGGGAAAAGG GGCAATAAGG CCTGTAGCCC ATGCTCCTCA CAGTCCTCCA GCAGTGGCAT TTGCACAGAC TTCTGGGACT
TATTGGTAAA ACTGGACAAC ATGANTGTNA GCCGGAAAGG CAAAGAACTC CGTGGAAGTC AGTGCCAGTG ANGCGCTGGC
GGTGAGGGGG TAAACCTTTT NCATACAGCC TTCGAGGCCT CTCCACT

SEO ID NO:1140: (Length of Sequence = 412 Nucleotides)

ATCCAAAGGA TATAGGCAAG CATCAGATAC AGCCAAAGCA TICKITYCCT AAAAGAGTCT GAACGCATCT NAYGCAACAC CCAAAAGTAT CCCITINCIY: CIVGITACAG TATGITTTCC CITTCGAATA NATGATTACT TATTGAACAN TATATGGAAN. AATATCITAC AAAAGGAAGT CATTTCCATT TICTAACATC TITTACATTG CACTAATTAC ATGGITTAAA TGACTATCCC TAATCITCAT CCAACTACAC CCCATGAATT TNAGGITTAT TTAATCAACC TAGITAGACC AGATATATCC TICTAAAATC

ATTIGIAGAT AGAGGATICT CCTTTTIGCT AGTAAATACC ATTAACATAT TINCAGANGG CCTGGTCTAG GGTCATTTAT TCCAGGGCCT CT

SEO ID NO:1141: (Length of Sequence = 410 Nucleotides)

GITAACCTGT GGCGCGCTCC GGGTATCCGG CGCCTGANGT TTTAGCTGCG GTGGCGCGG CAGTCGGGAC CGACTNAAGA
TGTCATTTGT CAGAGTGAAC CGCTGTGGTC CCCGANTTGG TGTAAGAAAA ACACCGAAAG TAAAGAAGAA GAAAACTTCA
GTGAAACAAG AATGGGATAA TACCGTGACT GATCTAACCG TTCATCGGGC AACTCCTGAA GATCTGGTAC GCCGTCATGA
AATACACAAA TCGAAGAATA GAGCATTAGT ACACTGGGAA CTCCAAGAAA AAGCTTTGAA GAGAAAAATGG AGGAAGCAGA
AACCAGNAAC TTTAAATCTT GAGAAAAGAA GATTNGTCTA TCATGAAGGA GGNTTCTTTC TGATCAATAC CAGATGCAAA
GATGTGTTGG

SEO ID NO:1142: (Length of Sequence = 392 Nucleotides)

TITITITIT TITITITITI TITICCNGG ATGAATGIC TITATTAAAT AAACGAGTAA ATGGTAGCAC AAATCACCAT CAATATTITT GGAAGGATTG GGGACAAGAT GTCGAGTCAG AAATTAATTIN TCCATTTCAG GGTCTCAATG TAGCTGAAGA ACTGTGCCCCA CTGATCAGTA TITACGTATTG CAAATGCAGG AGGTAAGGCT AAAATAGGAC TITATGCCGTT CAGAAGATTG ANTITGAAAC CITAAAAACT ATCATAATAG TAGGAATGCA TGTTAAGATT TGATAACTTT CTTTAGCTAG AGTTTTCAAC CCACAGTTAG GAGCAAAGTT GTAAAGTGAG TAGGTNTGAA GAAGGGACAC TCTTTTGAGA AAAGAAATTN GC

SEO ID NO:1143: (Length of Sequence = 200 Nucleotides)

ACTICCICIC TCCTGGCATC TGCTATAAAA ATAAGAAGGA GCAAATATIC TIGCCTCTIT TTATCACCIG ANCIGAAAAC CCATTGTAAC TGCCATGAAA ATAAGCACTG GTCCATGAGA CCAATGCCCA GAAAATTCAG GCTAAGATTC CTGGAAAGTG GGCTGTGGGC ATTATTTAAA ACACACAC AAAATTTACC

SEO ID NO:1144: (Length of Sequence = 333 Nucleotides)

AACAGAAGCA TGTTATTICA TICCCATTCC CAGAAAGGGA GITAATGAAG ATAAAAATIT ATITTTTAAG GICTITATIG
AGAGAAACIT TGTTTTCIGA TAIGAACIAT TGCAGATGIT TITATAAATA CITICATTAA AATGATGTAA ACAGTAGTAC
CCAACACIGI AAACICAGIG AAAATAGIAA ATGATTCITI TATTACTAAG ACTGICATGC ATTCIGAAGC AGITGGCTTT
TTTTTAACCA TAGGAAGICA TITCCCTCTA GCTCCTTCCC TTCTACTCTC CTGCTCAGAC CATTAGTAGG TACTTTGTTA
AATAAAAAAC TAG

SEO ID NO:1145: (Length of Sequence = 225 Nucleotides)

TGGGTTTCTG ATCCGAGAAA AATTGAAAGA CAAACATGGC TGGGGGAAGC AAAACGCTGA CACACAATTC AGGTGGCCCA GCAGTGCTGA CCTGCAATCC ACCCCACCCC AAGGCAGCCC TTTCAATCCA AAGTGGACAG AGTGGGCCTT ATCCCAGANT CACTCAGGAA GCTTCTTCAA ACATATGACT GCCACACCCG CCCCCAAGGT TCAGAAACAT CTTCG

SEO ID NO:1146: (Length of Sequence = 223 Nucleotides)

AAGGNACAAT ATTATTCTAA ATAATTTAGA TITGGAAGAC ATCAATGACT TITGGAGATGA TGGGTCCTTG TATATTACTA
AGGTTACCAC AACTCACGNT GGCAATTACA CCTGCTATUC AGATGGCTAT NAACAAGNCT ATCAGACTCA CATCTNCCAA
CTGANTGTCC CTCCAGTCAT CCGGGTGTAT CCAGAGAGTC ACCCTAGAGA GCCTGGGGTA ACT

SEO ID NO:1147: (Length of Sequence = 389 Nucleotides)

ATTICAGIGG CCATTAAGAC CCIGAAAGIT GGCTACACAG AAAAGCAGAG GAGAGACTIC CIGGGAGAAG CAAGCATTAT
GGGACAGITT GACCACCCCA ATATCATICG ACIGGAAGGA GITGITACCA AAAGTAAGCC AGITATGATT GINACAGAAT
ACATGGAGAA TGGTTCCTIG GATAGITTCC TACGIAAACA CGATGCCCAG TITACTGTCA TICAGCTAGT GGGGATGCTT
CGAGGGATAG CATCIGGCAT GAAGTACCIG TCAGACATGG GCIATGITCA CCGAGACCTC GCIGCICGGA ACATCITGAT
CAACAGTAAC TIGGIGIGIA AGGITTCTAA TITCGGACTT TCGCGIGICC TGGAGGATGA CCCAGAAGC

SEO ID NO:1148: (Length of Sequence = 386 Nucleotides)

ATTAATTECT TECCATCATE ASCAGAAGCA ASCETGACAA CAATTITNAT ASTETAGAGA TITGAGATTC TACATTCACA
GTCCTGAAAC GNTATCAGAA TITAAAACCT ATAGECTCAG GAGCTCAAGG AATAGTATGC GCAGTTNATG ATGCCATTCT
TGAAAAGAAAT GTTGCAATCA AGAAGCTAAG CCGACCATTT CAGAATCAGA CTCATGCCAA GCGGGCCTAC AGAAGACTAG
TTCTTATGAA ATGINITAAT CACAAAAATA TAATTGGCCT TTTGAATGIT TTCACACCAC AGAAAATCCCT AGAAGANTTT
CAAGATGTTT ACATAGTCAT GGAGCTCATG GATGCAAATC TTTGCCANGT GTTCAGATGG GGCTAG

SEQ ID NO:1149: (Length of Sequence = 364 Nucleotides)

GCCACCIACT CAGGAGGCAG AGGCAGAGAC TCCATTGCCG CCAG
TGCACTCGGG TGAGACTCCA CCTCAAAAAA TAAAAAAAAA GAAAGATATT ATTCAAGAAA AGAACTTAGG AGCCAGGTGC
AGTGGCTCAT GTCTATTATG CCAGTACTTT GGC.3GGCCAA GGCAGTAGGN TCACTTGAGG CCGGGAGTTC AGAGACCAGT
CTGGGAAACG TAGCAAGACC TCGTCTCTAC AAAAAAAAGTG TTTAACAAAT TAGCTCAGTA TGGTGGCACA TGCCTGTAGT
CCCCCCTACT CAGGAGGCAG AGGCAGAAGG ATGGCTCGAG CCCTGGAATT CAAGGCTGCA GTGAACTAAG ATGGTGCCAT
TGCACTCGNG GATGGGTGAC AGAGCAAGAC TCCATTGCCG CCAG

SEO ID NO:1150: (Length of Sequence = 267 Nucleotides)

GACAGGIGIA ATCIAAGCIT AAATAAACCC CCCGGAGGCI GCACAATINC TIGGCATCIC TCCCCIGCCC TCTCCATCCG
CATATICAIT TIGGAGITIG GAGAAGTATC TAGAATCINC TCCCACCCCA AAATGCCCAG CAGAGCCCCC CCGCCGCCCC
CGCACCCCTT GGAGCIGCGG CIIGCIGAAT CGITGAGATG TCIGANACIG TCGGGGITCC CIACCTAGIG CITCAACCAG
ATCACCTCAC TITTGAGITT CCITCCT

SEO ID NO:1151: (Length of Sequence = 386 Nucleotides)

GGAAGACGAA GGAGGAGTAA AGGCATGINT CACATGGCAG CAGGCAAGAG AGCGTGTGCA GGGGAACTGC CCCTTATGAA ACCCTCAGAT CTCGTGAGAC TTATTCACTA CCATGAAAAC GGCACAGGGA AAACCTGCCC CTAAGCTTCA GTTACCCCCG ACAGGTCCCT CACATGACAC ATGGGGACTA TGGGAGCTTAT AATTCAAGAT GAGATTTGGG CAGGGACACA GCCAAACCAT ATCAGATACT TACCACATTA GACACTGACA GACAGCTCAC CACAGATTCT GGGCTCTATT CAAGGTGTTG ACTTGATCT TTTTCCAGTT GTAAATGTTT CATCCAAAAA AACTGTGATT TTGGCCATAAC TTTTTTCAAG AGTTGC

SEO ID NO:1152: (Length of Sequence = 239 Nucleotides)

GCAATCITTT GAGTGACTTA CTTTGAGTCT TTGTCACCTT TCCTCTGATT TTTTCACATG GTTTAACTCA GTGTACCCAA GAGTACTAGG TGCACTCAAT TCTGCTATTA ACTCTATAAG CAAGTNCTTA AGAAAGTTAA TGTTAAAAAA TAATCTTAAA ATTGTCTTGA TAGGAAAAAT GTATTTGAAA TTAAAAAAAA TTCTTATGTT GACTTCTTGG TTTTGAAACA ATTAATATA

SEO ID NO:1153: (Length of Sequence = 275 Nucleotides)

CAACCTCCTC TTCAGTGTCA AAAAAGCCAC GGTTAGACCA GATTCCTGCC GCCAACCTTG ATGCAGATGA CCCTCTAACA
GATGTATGTT TTGTTTCCTC CTTTCATCTC TAATAATTGA TTTACCATGT TTTTCTAAAA TACTTGTTAT GTCTTTNCTT
TAAGAAGTGA CATATATTTA TGTTTAGTTA CTGTTATTCA AATATAGCCC TGACCTCAGT GCTAAACTTT ATAGTTGATT
TTAAAATCAA AAGTATTATT TTGTGGGACT TTAAG

SEO ID NO:1154: (Length of Sequence = 203 Nucleotides)

CCTAAATCIT AAACCITACA ACAGITAAAT AAGACCCCTT TCAAAGGGAT TAACACACTG AATATTATAT ACATACAGAT
TTATATTTAT GCGCTATACA CATATATGGN CTITATCTGT ATATAAATAT GTGATGATAA TGATAAAAAGG ATAATGATTA
CACGTAGGAT AAACATTTAT CAAAAATTGT ACTATAAATA ATA

SEO ID NO:1155: (Length of Sequence = 343 Nucleotides)

GAAAACAAAA CACTAAGCIA TITIGGAACA ACIGITCIAC ACAGAAGAGA GCITCICITA AITIAAAAAA AAAAAAAAACC CCAAATAGGC ATTITIAGGC ATTAACCAAA AAAGAGAATC CAAATGAAAT ATTATACIIG AIGITCAAIT TITAATAGCAT CITGATAAAAG GIAIGCITCC TITCATIIGA MIACATTICI GNACAIGIAT GITATAAAAT CCAGGNAACA GCCAAACCAC AAGITAACCIC TITAACAATGA AITATACATAG TITAACCCTAT AGITAAGCAGC CCCTTIGAAA AGCACTGATG CACCCAACAN TITATAGGIT CCATTICATA AGG

SEO ID NO:1156: (Length of Sequence = 396 Nucleotides)

CCCACCAATT GCCATTAAAC CTCCCAATCT TTACTGGGAG GNTCTCTACT TACTGTTTCA AGGCAAAAAG ATGATTAANC TATCTCACAT GGTTGTAATT TGGGCCTAAA ATAAATGACT CTAGTGGTAG CATTTCATGT AGGCAGGTCC AAGGAAGACA GATTTGTAGA CAGAGTTGGG AAAAGGGTCA AAGAGCCAAT GAGTCTCCCT ATCCTGAGGG ATGCCTTGAC GGAGCCACAG CATGANCTCA TGTTTTCCTG AATCCATCTC AGTTCATGTG ACAGGATGGA AATGCTTCCT TTCTTAGCCA GTGTTGCTTG TAAACGAGTTC CCTGCAGCTC AGGAAGAGGA GCAACATGTA CTGCTTTGTT GCTTCCTGTA TAGAGAAGGC AGGAAT

SEO ID NO:1157: (Length of Sequence = 269 Nucleotides)

CAGGGICTCA ATCOGICTCC CAGGCTGGAG TGCAATGGCA CAATCTCAGC TCACTGCAAC CTCCACCTCC CGGGTTCAAG
TGATTCTCCT GCCTCAGCCT CCCTAGTAGC TGGGACCACA GGCACTCGCC ACCGCAACCA GCCAACTITT GTATTTGTAG
TAGAGACAGG GCTTCACCAC GCTGGCCAGG CTGGTCTCAA ACTCCTGACC TCAGGTGATC TGCCTGCCTC GGCCTCCCAA
AGTGCTGAGA TTCCGGCGTG AGCCACTTG

SEO ID NO:1158: (Length of Sequence = 190 Nucleotides)

CTIATIAGIT AATTCCACGE CAGATTITCA TITCIATCGA ATATATIATA TGIAGAAACT AGGGCCTTAA ATAATTAAGC TGACTITNCC TATIAGITAT TCCTTAAGAT AAAATTATGC TGGTGAAAAT NACTGINGAA TTTCTCAAGA AATTAAGCTC TATAGAGGCA TAAGTAATCG AAAGACTTTT

SEO ID NO:1159: (Length of Sequence = 340 Nucleotides)

GGGCACIGAC TTCCIGGGAG TGIAAGCNNC TCACCIGGAC CCCACAGCCA GIGAGCATTA GIGCITATAT TCCATCCICC AAAGCICITI CITCATACCA GACCACACAT GIGGCCCAAG GAGGGATATT TACTCIGCAC TTTTAGAGTT CIAGAAAACA TTGITTAGTG GICIGGCATC ATCIATATTT ACTIGGCTIG ATTTTGGGATA GAGTATAATC CITCATCCICG ATGAAAACAT TTINATGAGT TAACCITATG GGGIGATGGG ATTTATGGGA TTATTTCCAC CCTTAAAATG ATTTTGGGG GAAAAAAAAGT. GTACTAATCC CTAATTTAGG

296

SEO ID NO:1160: (Length of Sequence = 215 Nucleotides)

GTAAACAAAT CAATTAACAT GATTATCCCA GACCTITCTT TTCTTACTGG AAAAAAGAGG GCATTAAACT GGATGATGAC
AATAACACCA TAACTACAAG CTTTTATAAA AGTCCTTTAT ATACAGTGT AATACAGTGA AAGNTCAACC TTATTGAAAG
AGGTCTGGCT TCTGCCCTCA GCTACTGGGA AACAATCACT AGGCCTCTGG CATGT

SEO ID NO:1161: (Length of Sequence = 298 Nucleotides)

AATCITIAAA ACIACITIGA ATCITATAGA AACATCAGAA TCITITGAAT TCAAAAGAAG CCAGGGACTC TAGCCAAAGT
GGAGTGGITT ÍTTAACICAA GGATTIAGGA CCITGGCTGA ATACAAACAT TGAATGATTA CTCAGTAGGT GCCAAAGCTC
AGGACTITAG ACAGAGTCAG AGTCCAGTTT GINCTGAAAC ACAATTIGAT TTCAACTATT GITTTAAGTG AGAGAGGAAA
GTGACATTAT TATGAGTGTA AATTINCTGC TITTAAAGTA GAAGTTACTG ACAATTIGA

SEO ID NO:1162: (Length of Sequence = 163 Nucleotides)

GAAATAAGAA ACAGCTIGIA TATAACTAAT GCTTIGAGGG AGAAATTCAA ATGGCTATGA AAAAATATTI ATAATTCAAT GATAATAAAA ATCTTACACG TTAAAACTIG AGAATGTAGT TAAAGCAATA CTTGGNCATA ANCTTAGCAC ATATTAGTAA AGA

SEO ID NO:1163: (Length of Sequence = 393 Nucleotides)

GCCAACACCA GGAGCATTIT ATTCAGATGI TAAATGAACC AGITCAAGAA GCTGGTGGTC AAGGAGGAGG AGGTGGAGGI GGCAAGTGGAG GAATTGCAGA AGCTGGAAGI GGTCATATGA NCTACATTCA AGTAACACCT CAGGAAAAAG AAGCTATAGA AAGGTTAAAG GCATTAGGAT TTCCTGAAGG ACTTGGATA CAAGCGTATT TTGCTTGTNA GAAGAATGAG AATTTGGCTG CCAATTINCT TCTACAGCAG AACTTTGATG AAGATTGAAA GGGACTTTTT TATATCTCAC ACTTCACACC AGTGCATTAC ACTAACTTGT TCACTGGATT GTCTGGGATG ACTTGGGCTC ATATCCACAA TACTTGGTAT AAGGTAGTAG ATT

SEO ID NO:1164: (Length of Seque ce = 260 Nucleotides)

SEO ID NO:1165: (Length of Sequence = 330 Nucleotides)

CATTGGTATT TAAAAATGAA TATTAATATA ATGAAATGAN TITGCCTTTT TGTAGGCATA ATAAGCCAAA TACTTTTTTA
CCCAAAATAA TITTINAGAGA AAATGATGIA ATGAAAAATT GTACCATGAA TTAGGAGCAT AGTTTTINCC ATTTAAACGT
CACCATTACT TAAAAGATGA TTGATTATTG CTATACCAAA TCAGATGAAC TCTGTTCATC ACTTTCCTNC TCTGTCCCCA
AACAATTTGG TTCATTCAGA CTGAAATGIT TGTGTCTTCA ACTTATTAGA ATGGAAGATA ATGCAGATAT TTCTGTCCGA
AATAAAATAA

SEO ID NO:1166: (Length of Sequence = 312 Nucleotides)

ATTGGAGATG CCTTTGTCAA ATTTNCCCAT TITAAATGGC CAGGAAAAAC AATAATAATT TICCTGATGC TGAGGTTTTA
TATCTTAGTA GAAGAACTTA AACTATGACT TGTATTCAAG TCTAACACCA, ATAGACGTAA TGANTGAAAG TAGTCATTGA
CCTGGGACAA GATCACTTTG AACATGACAC TATTATACAA AGTGTAATAT TTATTTTTAA ACAACCACTT TTCAAAAGCA

GTTGTGCATA CATTCCAAAG AATAAAATGC TAGCTACTAG GTTTTGAGAA GCAGAATAAA ATATGATACT GA

SEO ID NO:1167: (Length of Sequence = 305 Nucleotides)

SEO ID NO:1168: (Length of Sequence = 342 Nucleotides)

AAGGITTIAG TGATGATTCA GTGAGAAACA TATTTGAAGC AACAAGCACA GIAACTGGAA GCTGIAGGIA CTCAATAAGT GTCAGITTCC TTCCTCTTCT AAAAGCTGTG CTTTCAAGTC AATTGIATGI CTAGAGTCGC ACTGICTGGI ACAGTGGCCA GIACTAGCCA CATATGGCTC TCAAGTACTT TAAAGAGGGC TAGTCTGAAT TGATATGTGI CATACATGIA AAATACTTTA AAGAGGGCTC ATCTGAATTG ATATATGCCA TGCATGIAAA ATACAAATCA GATTTCTAAA ACTTTGTACC AAAAAATACC ATAAAATAAC TTACTAATAA TT

SEO ID NO:1169: (Length of Sequence = 397 Nucleotides)

GAGACGGAGC TCCNTCTGTC GCCAGGCTGG AGTGCAGTGG CACGATCTTG GTTCACTGCA AGCTTCACCT CCCAGGTTCA
CACCATTCTC CTGCCTCAGC CTCCCGAGTA GCTGGGACCA CAGGCGCCCA CCACCACGCC CAGCTAATTT TTTATATTTT
TAGTAGAGAC GGGGGTTTCA CCGTGTTAGC CAGGATGGTC TCGATTTCCT GACCTCGTGA TCCGCCCGCN TTGGTGTCCC
AAAGTGCTGG GATTACAGGC GTGAGCACCA ATGCCCAGCC TTTGGAGACA CTTTTGATTG CCACAACTCA GGGTAGGGAG
GGCTGGGAAA TATTACTGGT GTGTAGTGCA TCGAGGCCAG GGATGCTGCT AGACATCCTG CAATGCACAA GGACAGG

SEO ID NO:1170: (Length of Sequence = 422 Nucleotides)

GITTIAAAGC CICIGGACAG AGCAGIATIT CGITTAAAAC TITIGITITIC TIAAAAGCIT ACAGIGITIG GCIAATICIC CICCCCITIT TACAAGACGG GGGCCGGAGG GIGGACACIG GIGGCAGGIT AAGGGATACT GICACTITAA GAAGCCIGCA GATIGAAGIG TAAACATGGA GAAATIAGGG GCIGATITIT TAAACIGIGI GAGATATTAA CCAGCCGCCC TGITATAAAA TCAGGAAATC CAAACAGCGA TITACACCGA TIAACACCCC CITITATATAT TITINACAAA AATACACTGA GAAAATAATC AAACGITITC AICICICTIG TCTTTTTTIG TTTTTTAAAA GIGICAAAAG TCTACATNIA AATATAAAAN ATTAAAAGIT AAACTCTAGC CCTTCAGIGA GG

SEO ID NO:1171: (Length of Sequence = 384 Nucleotides)

TCTGAATGGG TTGGTGAAAG GTTACAGGAG CAGACAGCCT CCACACCCAG GCTGCTCTTG GCTATACAGG CTACCTCCAT
CCCTGANTGT TGTAATAGGA AAGTCTAAAC ACACAGAAGA GGAGCACAAA ACCAATAATT ATCACACATT CAAAATAAAA
CTAATCCATA AAGAAAAGTA CCAAACTCAA CAAAGACAGC AATGCCTGAA AACACTGGGC TGTATCAGCA AATAGAACAA
AGAAAAATAN GCATAATTAA AACAGTAGAA GGTGAAGGAT AATTTTTAAA ANTTAGATAT CATATTCTGA TTATTGAAAT
AAAAAACTTA GTAGAAAAGC TTAACTGAAG AGGATCAAAC CTGAGGAGGA CCCCGCCAGT TTTG

SEO ID NO:1172: (Length of Sequence = 410 Nucleotides)

GAGAGAAAAA AAAAAAATCT TITAAAAGCT GCCATCTGAG GTGATGGCTT CTCTGTACTT ACGCCATACC CCAGANTACA ATAAATAAGC AATTAGAAAA CGTTCAAGTA TGAAGGGATT TCCTCCTCCC CGCCAAAAGC ACTGCTCTCT GAAGGAAGCT GGTTTCTCTG TAGCTACACC AGCTGTTCAG AAAGCTCATT GGACCTGGTT TTGAAAATAA AACAAAGTTA AAACCCTGGG AGGAGTTATT GINCAGTGTG GAGTACTCAG GCTTTCTTAT AAAGAAAAAA AAAGGTTATC TGGTACCAAA GTGTGCACCT ACAGACCCTC AGGTACTGCC CTGTGACTTC NCTGTATGAC ATCACAAGGC TGCCAAGTGC TGCTTTNCTA GACTAGGGAG TTGGTGAGGT TTTGCTAG

SEQ ID NO:1173: (Length of Sequence = 274 Nucleotides)

GAGATCIAAA TGAAATTIAT AAGAAAATTG TGGGTTCTGC CCAAGATGAC ATCTAAATTG AAGAAGGTTAC ACAGTGAGTT
TAAAGGATCA ACGAGAGAA CTITIATTAT TCATTTGCAC AAGAAGACAC ATTCAGTATC TGGATTATCC AATATATGGA
ATACTTTGAG TTGAAATGAT TAAAGGGTAA TCTTTAATCA TTAATTAACA AATCATTAAT TAANCAAAAT AATATTTAGC
AAATTAAGCA AGINCTAAAG GCTACATGCA AACT

SEO ID NO:1174: (Length of Sequence = 326 Nucleotides)

AGAAATTAAA ACACTITAAT ATAAACATIT CCAGAATATA GACTGACCTT ATATCAGTAC TITTNGAGAC CGITTTAAAA CTATATATCA TCTAAGTITA TTATAGACTG TITCATTITC CACTITCAGA ACTAGAAAAT GCAAAAATAC ACTGCAAATT AGATTTAACA AAGAAAAAAAT CAGITTAAGA TATTTCATAC ATATTCCTTG GNGAAAGCTG AGACACATAA ACACAGNAAA ACAACAATAA AATACCACCA ACACTAACAC AAAACCAAGG AAAGAACTGN TITTGTAACG CTTGGTAATT CTGTCCTTTA AAATAA

SEO ID NO:1175: (Length of Sequence = 426 Nucleotides)

GCAGTCAGGA TOGACACATT AGAAAGAAAC ATTITAGITT CAATGITACC ATAAAACCAG AACGAAAAGC AGCATGCTGT
ATTATATTIN NCAATITAGG TICCATTICT AACICCACCT AAAATGAATA TGAACAAACT CATTITTAAG TGITTGICAG
TCAAATACAA TAATAGICTA AGITTATICA CATATGIACC AACCAAAGCC CAATAAAGCT AAAAGGAAGC CAAGIGTAAT
AAAAAGGCAG CTATAAGGIC TIGIGITTGA NITITTIACCC AGCAAGAAT AAATGATACT TAGIAATCCA TCITTCCCCC
CCACTGCCAT CCCTGCACAC ATCTAAAATA GGCTAACTTC ACCTATTCTA ACTICTGAAA TIGITTTGGG ATTCCTGTTT
TACTTTCTCA GAGTGGATGG TATAGC

SEO ID NO:1176: (Length of Sequence = 301 Nucleotides)

CHARTCCICA AICCIATCCC TITNCCICTI AGCCATCCIC TCIAATTINI TIAACCIAAG CCIGIGIGIC CICAGAAAAT AGGITATGCI GITGGIGIGI GIGGITGGIA AICIATATACA AIGGNGITAT GCIATIGATI TIGITIGGIA AICICCCITI TIACICAATA CIATATTIAT AAGANCCNIT TAAGIGGIIG TATGCCICIA CITTATIGCI TCIGACIGCI GCATGGNATI CCATACICAT GICCACCACA CITACICATI CICCCICTIG AIGGACGCIG AAGITGCIIG G

SEO ID NO:1177: (Length of Sequence = 331 Nucleotides)

GCAATTCTCC TECCTCANCT TCCTGAGTAG CTGGGATTAC AGGIGCCTGC ACCACGCCCG CCTAATTTTT GTATTTTTAG
TAAAGACAGG GTTTCACCAT GTTGGTCAGG CTGGTCTCGA ACTGCTGACC TCATGATCCG CCCGCCTCAG CCTCCCAAAG
TGTTGGGATT ACAGGCATGA GCCACCAAGC CCGGCAAATC CATGCTTTTA AACATTACTC TGTATGGTGT GATAATGAAC
AGTCACTGNT ATCTGACTGT TCATCTGTGT GGTCCATCTG TATTGAATAA AGGAGGAAGG AGTTGAAGAA TAAAGGGGAA
AATCTTGCAG A

SEO ID NO: 1178: (Length of Sequence = 325 Nucleotides)

GAAATINITG GAGAGAATAG TCATACCTAC TITAAAAGAG AATAAATIGC CITTCCTAAA TNCCTCTGCT TCGCTCCTTT
CCTGGCGTTG CTCTGGAACC TTGTGAGTTA TATGTATGAT TNCTGTACTC TGATATCCAT CAAAGTGCAT AACATAGTAC

300

SEO ID NO:1185: (Length of Sequence = 383 Nucleotides)

GAGAGGIGAG CAGGCGIGCG GGGGGGGGAC TICTGCAGAG AAAATATITT TAAAGICATA AAACCATGAA AATAACAACT
ACTGIACGIT TTATTTIATA GAAATCAAGT AGTATCIAAT AGACAAGGGA AGACATTGAT CCATAAACIT TITAAAGAAA
ATTTGGIAAT CTCTTAAAGT ATTTGTATGG CTTTGAATGG GIGINCTTTT CTAACTTTGT TITAATTTTT ATGATACACT
TATAATTGTT TCAAATAGGC ATTTGINCAT TITAAAACTA CTAGAAGTTA CACTGAAGAA AAGCATTCAA AAGAAGACTT
TTGGACAAAA AAAATTGTTG AATGAGTGAA ATGCCTGAGG TAGCTCAATT TACCAAACAG GAA

SEO ID NO:1186: (Length of Sequence = 373 Nucleotides)

GOGGCTCAAG GTGTGCATGT NTGAGGGAAG AGAGAGAGAG AGAAGGCCGC CTCANAGGTG ACTTTCAGCC TGCNAGCCTT
CTTCCCGGGG CGCCATAAAC GCCCCCAATT TCCCAGCTGC TAAAGGAAGA GGAAGGTACC TGTNCGTGCA CGCAGACGGG
AAGGGCTGGG GAAGCGGAG GACTGAGAAA AGCCAGATCT TAGCAAAGCA ATGTCTCAAG ATGGTGCTTC TCAGTTCCAA
GAAGTCATTC GGCAAGAGCT AGAATTATCT NTGAAGAAGG AACTAGAAAA AATACTCACC ACAGCATCAT CACATGAATT
TTGAGCACAN CAAAAAGGGC CTGGGTGGAT TTCGGAAGCT ATTTCATAGA TTT

SEO ID NO:1137: (Length of Sequence = 365 Nucleotides)

TCCACGCAAT ICIGAATAAA GITTATTAAA TAATATGIAC AGCAAATGIA GIAATTCAAC ACATCIATIT ATCAAATCAA
TCCACIGCAA TGAAGAAAAA TAAATGANCA GAAAAATCIA TGTCTGCATA GGNCATGCTC TCAGTGTGTA ATTIAAATGG
CAATACITTA AATTAATIGG TTATATATAA TGTCAGTTAT TTTCCTTTCA GAATATAACC TTTTTTGIAG TAACCIATTC
TAGCAATAGG GCTTAATACG NCTGCAGATA AATAGGNCTG CAAAAAACCAA AAACCCAAAA TAATGAAATT NAAAAGGGGA
AAAAAACTGT AACTGNGNIC AGAGTTACCT TTCCTCCCCC ATAGG

SED ID NO:1188: (Length of Sequence = 350 Nucleotides)

AGAATGGATA AATTCAAATA ATCATAAATT ACGGTAACTT TITATTATAC CAAGGTGTTC TAATGCCATC ATATGANGAC AGATGCTTCA AACAACCTGC ATTAAATTAT ATTTTNIAATA AAATTAAAAT CTATTTTTAA CCTATTTTGTA GTCACAAACC GAAAACGTGT CGNCTTTACC TTAGAGCTAA AGGCTTACTT TATGCATACG GGATATTTAA TAGTCTACAA ATCAAAGGTT TAAACAGNCC CTTAAAAATT CCATATATTC

SEO ID NO:1189: (Length of Sequence = 393 Nucleotides)

GCAAACTINC TCACTICCIC AAAGAAGAGT AGIGCACTAA AAAGAAGGIT GCACCCGGAG AGCATGTAAA GIGICTCAAG GGGGACATCT GAAGINCCCC GITCCCAGGG AGCCCACTGG CTCCTCACAA GTAATCTAAT GAAAGCTATG CATTCTCTCT GGGCTCCTCA TATGAAAAAAN CCCAATGTAT GANGCAAAGC CTAGAAAGGA TTCAATACTG GAGAAATGCA CACAGCTACC GATAAAAGACA GCTCAAAAAGT CCTAAGGCTG CTGACATGAA CCAGATAATT GGTGGCTACA GTTGTGCCTG CTAAGATTTG GGTGCATGGG GCTTCGCTTT GGTTAGCTCC CATGGTCTTC TTTTTCCAAA AAAAAAAAAG AAGNCTTCAG GTT

SEO ID NO:1190: (Length of Sequence = 365 Nucleotides)

AGIGIAAACA TACACATATT TAATAGTACC TITAAAATAA GCATTACTAC ATTTAAAATG GITCCAAAAT GAATCTATAA ATGGTAATAT AAATTAAAAA ATACGAACTT AAAGTGAATA AATTTTTAAC CITAGCTATG GTATAAATAA TAGTAAATGT ATAGTGTACC TATGAGTCAT TAAAATGTCT TAAAAGATAA CAGCTTGTTA CCAGAACATT AGAAACCATA GCCATGATTC TCAAGCGNIA ACAATCIACA TIIGNIATIT NCIIGGCCAC IGCATICIIC AAAIGANIAA TAAATIICCA GAATICCCAT TCCCAIGGIG TITIICCCAA TAGANCIIIT ICACACICGA IGIIG

SEO ID NO:1191: (Length of Sequence = 303 Nucleotides)

CCCGGAGAGC TGCCTTCCTC TTCTACCACG TGAGGACACT GCAGGAAGAC AGCTGTCTAA GAACTAGGAA GTGGGCCCTC
ACCAGACATT GAATCIGCGC TCCTTGAACT TGGACTTCCC AGCATCCAGA ACTGTGAGAA ATAAATTCAT GTTATTTATA
AACCAACCTG TCTATGGTAT TINITGTAGC AGCCTGCAGC TCTCTATCAC TCTTGTTTAT AAGAGGCTGA AGTTTACTTT
ACCTCAGGCA GAGCTAAGCA AAAAAGATTA CATCCCGATT ACAAGATGAA AGTAAACAGA ATT

SEO ID NO:1192: (Length of Sequence = 315 Nucleotides)

SEO ID NO:1193: (Length of Sequence = 313 Nucleotides)

CGAATTAGTG AACTGTGCTT CAGGTTCAGG AACCTGGTCT TAGCTCCTTG CCTGCTGAGA TTTTGAGTTA CAAGTAGAAT TCTCCCAAAAAG CAAAACACGT AAAAGTCATT TINCCACTCT TTTGGTCAAG CACATGTAAG CTTTCAGGAC CAGGTGGTAT GCCGTTNCTG AAAGTGAGAC ACATGCCCCA GGGAAAGGGT AATTTTAAAA TTCTTCCCAT AGGTCCTCAT CCTGTTCCTC TGCTATGTCC AGCATCCTTN AGTCCCAGGCT GCAGGGCCTA TATTTAAATA CCCTCATGCT TTATCGCTTT TGT

SEO ID NO:1194: (Length of Sequence = 341 Nucleotides)

GATTTAAAAG CAAGINATTT TNAAATCCAC GAAAGATGCC TACCTTGGNT CCINCTCTGG TCCTTATTAG CCACACCTCT
CTTGACAGGC AGAGGAGTTA GGAGTGAGGG GATATTCCCA CCAAGACCCT ACAAATTGCA CTCTTAGGCC ATGCCCTGGG
TACCCCAAACT CTAGAATTCC CTCCTCAAAG GGACCTTAAC CCAACTTCAG AGCCTATATA GGCCAATTCC TTGGTCCATT
TTCCAAGGGG TGGNCAAAGG ACAACCATTT TNGGGAGGGN GANGGGAGTA GGATGAAGCT TTGGNCACGT GGGTCTTGGG
CAAATCCCAC ATATCCCGGA A

SEO ID NO:1195: (Length of Sequence = 239 Nucleotides)

TTATTGATTC TTTTTTTGAA ATGGAGTCTC GCTCTGTNNC CCAGGCTGGA TTGCAATTNC NOGATCTCAA CCCACTGCAA CCTCCGCCTC CGGGGTTCGA GCGATTCTCC TGCCTCANCC TCCTGAGTAG CTGGGACTAC AGGTGCGCC CACCATGCCC AACTAATTTT GGTATTTTTA GAGACAGGGT TTCTCCATGT TGGTCAGGCT GTTCTCAAGC TCCCAACCTC AGGTGATCA

SEQ ID NO:1196: (Length of Sequence = 291 Nucleotides)

CCATGCTTGG CTCAGGGCCT GGGGCGGGT CCTGGGTAGA GTCCTAGCCC CAGAGCCCCA GCCCCTCATG TCCTGCCGCC CCTCACTGAC CAGACGATGA TCGGNAACCT CTTGAGAAAA CATGGCAAAG GATTAGAAAA GGGCAGGGTG AAATTNCCAA GCCACTCAGA CGGAACCCAG ATGATCTTCA ATGCAGCCCAA GGAGCTGGGT CAGCTGTCCA AACTCAAGGT TCACATGGTA CGAGAAGAAG CCAAGAGCTT NACCCCAAAG CAGTGCGCGG TTGTTTGAGT T

SEC ED NO:1197: " (Length of Sequence = 303 Nacleotides)

CITCATATTT TTATAGCTGG GGTCAAAATA TGCAATTTAA AAATAAATAT ATCCATTTNC CTATTCTTAC ATTTATGAAT ATAAAANTAA AATCTAAGAA ACATAATGCT GCCAACTAAT AGTAGTGGAG GAAAGGAAGC TGAGAGAAAG ATAAATATAT

TANTITAATC ATTACTCAGA AAAGGCAGTA AAAGATACTA TCTATAGCAG GCATCAATAA ATATGANCCA TGAGCCAAAT CAGGCTTACC ACCTGATTIT NTAGGATAAA GITCATTGNA AACACAGTTA CAGTGTCTIT CCA

SEO ID NO:1198: (Length of Sequence = 318 Nucleotides)

CTCAATTICT TCTCATCITT TINATGCTAT TATTGICATA TAAGITACAT TCCTATACAT TGTGTGTCCA ACACAAATTT
AAAATTATGC CATTGTCTCT TAAGTCATAG AACAAAAGAG ATACAAACAA AACATACATT TATCCTGTCT TTTATATTTG
CCTATGCAGT TACCTTTACC AGTGTTCCTT ATTTCTNCAT GTGGATCTGA GTTACTGTCT TTNAACTTCA ATCTAAAGNN
CTTTCAGTCT GAAAGACTGT AATTTNAATT TCTNGTAGGG GTAGGTTAAC TAATGATTAA TTCTCAGTAT TCTGAGGA

SEO ID NO:1199: (Length of Sequence = 326 Nucleotides)

TCTAGTTATT CTGAGAACTA CAACCAAGAA AAGAGGGAAG CACCGGGTTG GCCAAGGCCA TCCGGAGACT TGTCCTGCTG
GGTCATTTAA AAAGCTTTTC TAGGATAACG TTGGCTTTCC AAGTGGTTTT CCAAGCTGAT GTCTTTCCCA CTGAGGAGAA
GCTGTAGGCC TGTGGACTGC CAGGTAGGAG GAGGTTGAGG TTTAGAGGAA AGAGGAGAGC AGGAATGGGT TGTTTNCAGT
GGGGCTGTTC CCATGGACTC ACCAAGAAGA AATCGAGGTG CTGATGGGGC TGCACAAGTG CTTATCAGAA ACAGCTGTAA
CAAGTT

SEO ID NO:1200: (Length of Sequence = 341 Nucleotides)

GOGTGACAGA GTGAGACTCA GTCTCGCTGA AAAAAACAAC AACATTGCTT TACAGTGTGA TTCCAGTTAC AGAGAATATT
CACATAGGTG CATAAATAAA TGAAAAAAATT ATTGGTTAAT GTCTCTGTAT GTTGGGATTC TCAGTGATTT TNTTTTNCTA
CTTTTNATTT TTNATAATTC CTCCAGTGTG TTGGTGTTAG CTTTATAGAT TATATCAAGT AACCTTTTGC TGCACCAAAA
AACCCCCCAA ATCTAGTGGA TTAAAACAAA ACCATCTTAC AATTTINNTC AGAACTGTCT AAGGCTGGAT ATTTTACTGG
GCTCTCTCCT GAATGTGGGG G

SEO ID NO:1201: (Length of Sequence = 312 Nucleotides)

GTCTTTNTTA CCCTGCTAGC AATAGCTCTC AGITTCAGAG GCACAGTCTT TGGAGACCAT TCAGCACTGA GAAAGCAATA
TTTAGAACCT ATTGCAAAAC TGGGCCTGAG TTAGGCATGG TGATGAATGC ATCAGCAAGG AATAGAAAGT NCTTATCGTG
AAACCCTTCA ACCTCAACTA TGCCTTCATA GACACACAG TTCATGCACA TGTAGGCACA TGTACCATCT CACATCTTTC
ACTTTCCCGA GATGCCATAT ACAATTACCT ACATTAATAN CTGTAGGCACT ATACCTTTTT GAGCCCGAGA GA

SEO ID NO:1202: (Length of Sequence = 344 Nucleotides)

GGAAAATAGC CAGACTGGGT ATTATGCATG TAACAAATGA GGACATTGTG CATAAGAAAG GAAACATTAG TTTTCTGTCA
TCCTGGGCCA AGTACCTCAT TACAGTAAAT GTGTGTCTTT GGAAACTCTT TGCTTGTNCT GATGGCGGTA AGCATGGGGT
CCCAGGCAGG TTCAAAGGCT GAACTGTAAG AAATGGGCAA GACAATACAT TTTGTTTTGG AAGGAATTTC TCATGGGATA
AGTTTCCCAA AGCTTGAATT ACAGGCTATG AAATAAAGCA AATAGATGGA GGAGAAAACA AGTATTGTTT TCAAAAAAGGT
ACCAAGTCAA TTCTATTTAA AGGA

SEO ID NO:1203: (Length of Sequence = 370 Nucleotides)

GITCTTTATC TTCCTCCTCT TATGTGCACT ATGTAATGTC CTCATCATTT TAAAAGTGAG TTGCTATTGG GCGGGCGCGG
TGGCTCACGC CTGTAATCCC AGAACTTTGG GAGGCCAAGG TTTGTGGCTC ACTTGAGGTC AGGAGTTCAA GACCAGCCTG
GTCAACATGG TGAAACCCAG TCTCTACAAA AAACACACAC AAAAAATTAG CTAGGCATGG TGGCACACAC CTGTAATCCC
AGCTACTCGG GAGGCTGAGG CACGAGAATT GCTTGAACCC AGGGAGGCGG AGGGTTNCAG TGAGCCCAAG ATCGTGCCAC
TGCACTCCAA GCTTTGGGGT GACCAGAANC GAGACTTTCT CAAAACAAAA

SEO ID NO:1204: (Length of Sequence = 346 Nucleotides)

SEO ID NO:1205: (Length of Sequence = 292 Nucleotides)

TACAACGAGA CACTIGAGCA CACGCGTACA CCCAGACATC TICGGGCTGC TATIGGATIG ACTITIGAAGG TICTGTGTGG GTCGCCGTGG CTGCATGTTT GANICAGGTG GAGAAGCACT TCAACGCTGG ACGAAGTAAA GATTATTGTT GTTATTTTTT TTTTTCTCTC TCTCTCTCTC TTAAGAAAGG AAAATATCCC AAGGACTAAT CTGATCGGGT CTTCCTTCAT CAGGAACGAA TGCAGGAATT TGGGAACTGA GCTGTGCAAG TCCTGAAGAA GGAGATTTGT TT

SEO ID NO:1206: (Length of Sequence = 336 Nucleotides)

SEQ ID NO:1207: (Length of Sequence = 319 Nucleotides)

TECCTCANCC TOCAGAGTAA CTGGGATTAC AGGCGCCCGC CGCCACGCCT GGCTAATTTT TGTATTTTTA GTAGAGATGG
GATTTINCCA TGTTGGCCAG GCTGGTCTCC AACTCTGAT CTCAGGTGAT CCACCTGCCA CAGCCTCCCA AAGTGCTGGG
ATTACAGGCA TGAGCCACTG CGCCTGCCTC CATTTCCTTT TTATAATTCA TCCCTGAACT CCCTTAAGGT AGAGAAGCTG
TTTGATCGTC CCAGCCCCTG GGAGGCTGAA AGGTAACTIN ACCAGCTCCA TGCCTGAGTT TAGCACCTGC TGTGCCAGG

SEO ID NO:1208: (Length of Sequence = 357 Nucleotides)

GAGATGITTA AAAATGAAGI GGAAGITTIT TGITTITGIT TIGITTITGC AGAAAAAGA TITITAATGG CITGAATGIN CTGCCATAGI TGCGTCAGAT TGTCAGAAAA TIATGTTGIA CATCTGAGAG AGAAAAGAAG AGCCTITTGA GGAGCTGCGC TAAAAATTATT TTTTGTTTAG TCTCTTAACT CTTTGGCTTG AATGAGTCAT TGACTTTCCT TGCCAAGATA GGGTTAGCAT TTGTTTTGIG TTTTAAAAGC AGGCCAAGGG ATTGCCACGA GGGGAGACAA CCTGAGCAAC TGAAGGAAGG AATTTCTAGA AATTGTGTTT ACCAGTTGTT TTAGTCTGAA TGTGATT

SEQ ID NO:1209: (Length of Sequence = 362 Nucleotides)

CCCATCTGCT CCACCCAAAG AAATCAGACA AAGTAAAATT TATTGAGACA GACAGAAATG CACCTACTCA GGACTACAGT
TAAGCATTTA CTATTAACCA AAGAGTTGTG TTCACATTCC AGATAAGTCT ACGTGGAAAA GCATTCAGAA TTTACTAGGT
TTTTINCTACA TCACTATTTC ATCTACAATA GGGACAACAA ACTGACACTC AGGATTTGAT GGGCTCTCAT TACAATGCTA
TACATTTAAC AGGGNCAAAC ATCAGTGACT TTGAGGAAAA AGTTATAAAA NGACCAAAAAC CACCCACTGT AGGATGGGCT
CTTGGATGTT ACTGTACAGC GTGGGTCAAG GTAACAAGGA GG

SEO ID NO:1210: (Length of Sequence = 349 Nucleotides)

GAGAAGATAG TAGAGAAAGT CAGCGTTACA CAAAGGAGAA CCAGGAGAGC TGCCTCTTTT GCCGCAGCTA CCACTTCCCC
TACTCCCAGA ACTACAAGAG GTCGTAGGAA GAGTGTAGAG CCACCTAAGC GTAAGAAGCG GGCCACAAAG GAGCCCAAAG
CACCAGTCCA GAAAGCTAAG TGTGAAGAGA AAGAGACTCT GACCTGTGAG AAGTGCCCCA GGGTATTTAA CACTCGCTGG
TACCTGGAGA AGCACATGAA CGTTACTCAT AGGCGCATGC AGATTTGTGA TAAATGTGGC AAGAAGTTTT TCCTGGGAAG
TGAGCTGTCC CTTCACCAGC AAACAGACT

SEO ID NO:1211: (Length of Sequence = 344 Nucleotides)

TTTTTTTTT TTTTTCAGG GAAGAGCTIT ATTGCTTCCA TGGGGGGGC CTGGGACGGC TGCCACAGCT TGGGTAAGCT
CCTTGGGCCT CANTTCCCTT TGGTCAGGC TAAAGGCAGA ACCCAACCAC CTGGCAGTINT TGTTGCTGAA ACCTAGAACA
TGTGGCAAGT TGGTGAGTCC GGGCCTGCGG TAGTCCTATG GNTCAGCTGC AGCTGTGGAG GGGAGCTCTT CCCAGCAGGC
GGANTGGGCG TCACCCTCCT GAGCTTTAAA GTTCTTTCTG CTATAGCCCT GGGGCGGTCT TGTTGGCTCC GAAGGAATGG
GCTCCAGGGT TTCCCCATGG GACA

SEO ID NO:1212: (Length of Sequence = 364 Nucleotides)

AAAGAAAACC TGGTATTITC ACCATCCTCT CTGAAAATAA ATACTTIGAC TTGCACTGAT TACTACITCA TCAGCATTCA ACTCCGCTCC GTGGCACTCT GTGTGAATAA TITTAAAGGC AGATTAAGCA TTCTAAAAAT AAATTCTATT GGTAAATTAG GATATCAGAT GCTTCCATTA TAAAAGCCTA TCCTATTCTG TACTCTCAGC TGGCAGTCAT ATCCAGATCT CAAGCTACTC TGGCTCTTAT TGAACAAGAA CCTATTCCAG GCAGTGAGGT TTTGAAGAGG GGATCTCTCA TGGTTAACTA GACNCAGGAA GAGGCAGAAT TGCCCACATA CTCTNGCAGG AGTTAAATAA CAAT

SEO ID NO:1213: (Length of Sequence = 302 Nucleotides)

CTAATTITIG TATTITTAGT AGAGACGAG TICTACCATG TIGGCCAGGC TAGITICAAA CICCIGACCI CGGATGATCC ACCCGCCICG GCCTCCCAAA GIGITGGGAT TATAGGCATG AGCCACIGIG CCCGGITACI TITTCCITIT TTAAAACACT GAAATTGCIG TATCTACCAC ATTAACATT TATTTAAAAA AATTTGITAA ATAGCATATG TATGTAAATT TAATATTAAT ATACCTCTIT TITTGICCIT CITTAGGIGG TIGGAGCCTA GGGATACTTA CITACIGATT TI

SEO ID NO:1214: (Length of Sequence = 317 Nucleotides)

CTAATTITINC AGACAGGITT ACATGIAAAA GGCTAGGTAT TTAGCCACCT CAGCATTGAT TAGITTIGGA TGICTAAGCT CTGTTACACA TGGCTTCCCA TGGCTTCACT CTACAAAACA TATTINCAAC GTGAAGGNTA CATCTACAAG AAATCTACAT TTCAAGGGIT TTACAAATCA ATCTTGTATC TTTCCCCTGA ATTGACTCTC ACAGACCCCG TCCCCTTGIN ATTNCCTTTG CCCAGCTTAA CGGTCCAAAG TCTACTTAAA TGCAGCTCAA AAATGITAAG ATTGGGCAAC AGATTTACAG TTCCTGT

SEO ID NO:1215: (Length of Sequence = 276 Nucleotides)

ATAAGGIATT AAACAACIAT TCITGIACIT GANITAAAAA AAAATCAAGC TGGGIGCAAT TGCICATGGC TGIAATCCCA
ACACTITGCT AGGGITAAGT GAGAGGITCA GCCCAGAAGT TCAGTACCAG CCTGGGCAAT ATAGIGAGAC CCCTTCTCTA
CAAAAAAAAAT GAAGAAATTA GCTGGGIATG GITGCATGIN CTGTGGNCCC AGCTCCTCGG GAGGCTGAGG CTGGAGGNTC
ACTTGGGCCC AGAAGGTCAA GGCTACAGTG AACCTT

SEQ ID NO:1216: (Length of Sequence = 354 Mucleotides)

GCATAGGCAG CCCCTGCTCT TGCATTTACC TCCCACGTGA ACTAGCTCCT CAGTCATTGC TCTGGAATAT GCAGTTGTGA
TCTAGAAATT AAAGATGGGA TTAGGTAACC AGTGAGGTCC CTTCTACTGC CAGTGTATGA CTCTCTTCTT TGTAAATGTC
ATATGTAGGG TTCTGTACAC AGGACATTTT CTTCATTGTA GTTCCTCAGA TGCATTGAGC TCTCCTGAAT GACTTAGCGG

GGAAGCTCAG TTGCAGCTGA COGTATTAAG GGTCCTCTCC CATTGTGCTG TGCCCGCTCG TTAGCGTAGG ATTCNTGCCC CACGGCCCTT CCTGTTTTCT AAGGGCTTGG CTTT

SEO ID NO:1217: (Length of Sequence = 272 Nucleotides)

CTTCCCAGCT TTTGCTTGTT GTAAACAGCT GGCAGTGGTT ACATCTATAT TTGTTAAGAG GCAGAGCACT GTATTTTGTG
TAAGATAAGG TGCTAGTCTT GGCCAGGCTG CCAAGCTGGG GCINTTTAAA ATAAAAGTTT TAAAGAAAAA TTATAGCATA
ATAAATTACA CAATTTTATT GGAAAACTGA AGGTGTTCAA CCAATGCTAG TTTTTAAATA TATTTAGAAA TACTATTTCA
GGAAATTTTA ACTACACTCA TTAGTCTTAT GG

SEO ID NO:1218: (Length of Sequence = 281 Nucleotides)

GITGCCCAGG CIGCAGIGCA CITGIGCAAA CGCGGCTCAC TGCAGCCCCA ATCICCCACT CITAAGCAAT CCTCCCACCT CAGCCTCCTG AATAGCTGGG ATTACAGGIG TGCACIGCCA CACCCAGCTA ATINCITTAA TITTGITTTAT TITTAGTAGA GATGGAGITT CGCTATGITG TAAAGGCTGG TCTGGAACTG CTGGCCTCAA GCGATCCTCC CGCCTTGGCC TCTCAAACTG CTGGGGTTAC AGACGTGAGC CACCATGCCT GGGCCTGCTC A

SEO ID NO:1219: (Length of Sequence = 231 Nucleotides)

GTCTTCTCTC CCTCCTTCCC TTTATTGGCA CTGCCCGGAA CCAGGCAGCC AGCAGGGGAT GGGATCAGGA TGCAGTTGTC ATGGAAACGG TTGGGGATCC ACAGGAACGA CATTCATACA GGGACATTIN TGAAAGCAAA GCAAGAATGA NIGCTTTCCC GATCTCAGAC TGGCTGGATT CAGATCATTG TTTTGGCTGG TTCTCATTTT AAGGGGTAAG CAGTTTGCTA T

SEO ID NO:1220: (Length of Sequence = 409 Nucleotides)

AGICACTCAG AAACTTACTT TGCTTACAGC CTCATTATTG TTTTTTGTAT TTGTTAAGAT ATTCCGTGTG ATGACATATT
TTGCCTTAAA TTTNCTAATT TTCCTGGCCA TTGCTTTCCT GTGATTTGAA AATGTTACGG TAAGTGCTTA GTTTGGAAAC
TATACTGTCA ACATATATTG CATTACTTCA GCAGAGCTGT AGTTCCATAA CATAATAAAA TGATGCTTTT TTTAATAAGA
AGATCATACA CATTTCATTA TGCCCTAAAA GATGAACATT CAAAGTTCAC TTTTCTCTTG TTTTGATATG ACGGATATAT
ATCAGTAAAA TAAAAAATGC TGCAGNACCA ATATGCACTA ACTCAAACAT GCTGTGGATT TGTAGGGGCA CTGAGGTAGC
AATGTCAAG

SEO ID NO:1221: (Length of Sequence = 396 Nucleotides)

ATCTGAGATA CITTGTCCTC ATGAATAAAT TAGTTAGTAG AATCTAATTT CTAGATCCTT CATAATGGTA ATTGAGGGTA
AAAAATAATA ATGTAGTAGT CAATTTTAGC CCTTTAAACC TATGGGGAAC TGTATGAATA ACTGTTTGAA ACTGCAGGGT
AATCCTGTCA CACTTGCAAA CACATAGAAG CAACAAGACT ATTTCCTCTC ACACTTTTAA TTAAAATAGT GCCTGAGTAG
ACTTCCAGGG TAAGGTTCAG AAATTTNCTT TCTAATTTCC CTGTTTTAAT GACCACTACT TTTAAAGCTA TGCTGGGAAT
TCACTTTCAC ATATATCTAA CTTACAGGAA ATTTTTGAAG AGCCTAAATG TCTATGGGTA GATTCAATGT TTCCTT

SEO ID NO:1222: (Length of Sequence = 350 Nucleotides)

GIATTINITI CIGGIACIC TICATGGCCI GCIAGAGAAC TITACTAAAT TATAGICCAG TAGCIGGACA GAGCIGCATG
TGTATTCTCI AAGICCACCI GIGCIGCIGG TCAAGATTAT TITGCAGIGT TIGGIGGIGT TGAAGAGGAA TACTGITGIG
AAGGCIGAGI CAACIGCATG ACAATNCTCA TGGCICACTG GCNEAYGAGI TGIGGCATGA CIGAAAACCI CIGCITGIAT
TCCCAGATGA CAAGICACAC CIGAACAGCI GGATACTACI CGCATCCAAT TIGCITCCAA GITAACATAT TINCAGAAAA
TATTIGGATI TGGAGTACAT ACAAATATTT

SEO ID NO:1223: (Length of Sequence = 370 Nucleotides)

ATAAGCATAT GANTITATCI ATAGGCCAAG TIAATGACAT AACTACAAAG AAATGACTIG TITCACATGI TITAAACCAG
TGITTIGGCT ATACTAACTI AGIGAGACAT ATTCTAAAGA AAAATAGAGA CGCAAAGAAG ATCTTACACT TIAATAGICA
ATTTTGTAGT TGTAATATTA CTATCGATCA TITTGTAACT CTCCTATATA GGGTGTAGGA TGGTGGAAAT AAGTAATTTT
NTTAATGTTG TTAGGAACCA AGGCTATCAG TGTAAAATGA AGGAGTTACA AGCATAAGAT TGANAGACGG TAAGTAAAAA
GCTCATTAGT ATAGTTCCAA GTTTAACTTG TCAGGGATGA GCTCATGATT

SEO ID NO:1224: (Length of Sequence = 188 Nucleotides)

ACATGACCNA GGCCTGACCA AATCAGACTA AATCCTANTA CCTATACCAG AGTTATTGAG AAAGATAAGN TITGGCCTGC NGGCCTTTGA CAGTGAAAGG NTNTAGGCTT TGGAGCTCCT CAGGGCCACT GCTTCAGGGA ACCTTGCTGA CAGTGAAGCC AACACAGATG AAAGCAAGGC CAAACATT

SEO ID NO:1225: (Length of Sequence = 353 Nucleotides)

CCCCAGCCAA GGGAGGCAGT NAGINAGIGI GGTACCCAGC GIGGGAAACC GIGCTITITIN CCAIGGNACT NIGCAACCCA
CGGATTAGAA GATCCCACTC AGGAACCCAC GNCACTGGNA CCTAGAATGC CAACCCCAGA GCIGCACAGA TICTAAACAA
CCTCTCANCT GGAATCIGCC TAACCCIGCA GAGCTCCIGC GGGGAGGGGI GACCAGIGCC ACANCIGCIG CIGCCIGCIG
CCTAAGCCAT TITAA

254

CAAAAAGTTA G.LAAAACATG TAAACGTAAG TNATGAGGTA TITCATAGAT ACAGTGCCCA TACAAATNCT CITTCCCACA
ATTITCAACT GCCAGATCIC TIGCTTTAGT CITTTINCCT TATAITITGGA GAAACAGAAG AGITTGACAT AAAAGTCCCT
TTGAGGATGT GAGGGTTGCA GTAGTTTACA GCAGGGTCAG AAAATGAAAG TAATAAAGCA ATAITTACAT GTTTTTGTAT
AAGACCAAAA ATAITTCCTT AAAAAGTTGT TAAAAGTTTT TTAGTCCTAT AAACACTCAC TTTTATAGGG CACATGATTG
TCTGTGTGAC TTCTCTTTCC AGAGGAGGAC TTT

SEO ID NO:1227: (Length of Sequence = 352 Nucleotides)

GECATCIGIT TITTIGITIG TITTGAGATA GAGICICACI CIGICOCCAG GCIGGAGIGC AGIGGOGIGA TCICOGCICA CIGCAATCIT TGCCICCOGG GITCAAGCGA TICICCIGCC TCAGCCICCC AAGIAGCIGG GAGGIGIGCA CGCCACCACA CCCCGGGIAAT TITIGIAGIATI TITGIAGAGA TGGGGITICA CCATATIGGC AAGGATGGIC TCAATTICCI GCGCITGIGA ATCCGCCCGC CTCAGCCICC CCAAGIGCIG GGATTCCAGG CGIGACCACG GCGCCCGGCC GGNATCIGIA GATTITAAAA GGCCCCCAGIG GITCINATGC ACACCCCCAG AG

SEO ID NO:1228: (Length of Sequence = 387 Nucleotides)

AGTITICCAA GATIGAGIGA CACTATIGIA ATGAGAATCI TCACTGGAGC ATCAGAAGAA CIGATITCAA GCCAGITITG
TTGGICAGCA CGGICAAAAC TICAGAAGAA TCITGIGCTC TGAGGCTITC CAAAGCTITG TTCCCCAGGG CAGTAACAGC
TTCCAGTGIT GGCAGAGTCT TTAGTATTAT CACCAGGGCA GCTGCACTGI GGCCTGTAGC CATCITTCTC TTTTAGTACG
ATCCCACCTG TCAGACTTCT TGAATTTGCA CTTCAAATTA GAGCCACAAT CAAATTATCA GTCACGNTGT TTATTTTTTGT
CACCAGAGAA AGGACAGAGT CTGTTTCAGC AGAGTTTGGA GCCAGGTACT GATCTCTCTT CAGCAGG

SEO ID NO:1229: (Length of Sequence = 366 Nucleotides)

CTGATAAGGA GGTAATTTCA TAGGAGCTGC TAAGATGGGC ATGAGGEVTCA AACTGCAAAG CACCAACCAC CCCAACAACC
TGCTGAAGGA ACTCAACAAG TGCCGGCTCT CAGAGACCAT GTGCGACGTC ACCATTGTGG TGGGGAGCCG CTCCTTCCCG
GCCCACAAGG CTGTGCTGGC CTGTGCAGCT GGCTACTTCC AGAACCTCTT CCTGAATACT GGGCTTGATG CTGCCAGGAC
CTATGTGGTG GACTTCATCA CCCCTGCCAA CTTTNAGAAG GTTCTGAGCT TTGTCTACAC TTCAGAACTC TTCACAGACC
TGATCAATGT TGGGGTCATC TACGAGGTAG CTGAGCGTCT GGGTAT

SEO ID NO:1230: (Length of Sequence = 343 Nucleotides)

AGTGGAGAGA AGCCCTATGA ATGTTTTGAG TGTGGGAAAT CGTTTTGCTG GAGCACAAAC CTCATTCGAC ATGCCATTAT
CCACACTGGA GAGAAGCCCT ATAAATGTAG TGAATGTGGA AAGGCCTTCA GTCGCAGCTC GTCCCTCACT CAGCATCAAA
GGATGCATAC TGGGAAAAAAT CCCATCAGTG TAACAGATGT GGGAAGACCT TTTACAAGTG GACAAACCTC AGTTACCCTT
CGAGAACTIN TTTTAGGGAA GGACTTTTTG AATGTAACCA CTGAGGCAAA TATTTTTCCA GAGGNAACAT CTTCCTCTGC
ATCTGATCAA CCATACCAAA GAG

SEO ID NO:1231: (Length of Sequence = 406 Nucleotides)

CTCTCGCCGG GCAGCTTGGA GAAGGCGCAA TACTCTCCAG CTCCACCGTT ACTTCAGCAT GGCTGGGGAG GCCTTGGAAA ACTTATAATC ATGGTGGAAG AGGAAGCAAA CATGTCCTTC TTCACATGAC GGCAGGAAGG AGAAGTGCTG AGCAAAGGGA GGAAAGCCCC TTATAAAAACC ATTAGATCTT GTGAGAACTC ACTATCATGA GAACAGCATG AAGGTAACCG CCCCATGATT AANTTACCTC CCATGGGCTC CCTCCCGCAA GACGTGGAGA TTATGGAAAC TACAACTCAA GATGAGATTT NGGTGGGGAC ATTAGGCAAAC CATATCAATG TACATGTGTC TTTATGGTAG AATGATTTAT ATTACTTTAG GTATATAGCC AGTATTGGGA ATTGCT

SEO ID NO:1232: (Length of Sequence = 380 Nucleotides)

AGACCATCAA AGGCCCAGAG GAGAGACTCT TGGGACAAAT AAATATTTAA AAGCAGTTGC CTATGAGAAA ATGGAAAAAG CCACAAGCAA AGGTAAGATC CATGCTCCAA AAAGGCCTGA GAAAATCTTA AACCTTCTCC TCAGATTGAT CCCAAAAGCTT AGAACGAATA CCAAGATAAT AGCAAAAAATC CTCCCTGGAA AAGAGTCAGT CTGCAAAAAAC CGGAAAAAGGA GGTTGTTTTT TCCACAATGC CTAATTTCTA ACAACAACAA CAAAAACTCA GAAAAACTGG CCCAATAAGT GGAAGAAAAT AAAGTGACGG AAACCTTCCC CGGAGGAAAC ATAAGCTTCA GGCAAACTAG ACAGATTTTA GACTGTCTAA

SEO ID NO:1233: (Length of Sequence = 357 Nucleotides)

TTCAAAGITT ATCACAACCA CCACCATCAA GACAGCAAAC CAAAGGGGCA TGGTAAAAGA AAGITCCAGT GACTCTGGAT TTGGTTCTAA TTTTAATGCA ACTTCTTGAT TGAGTGCAGG GTCAGCACTA CTTCGAAGTG GCTTTGGCGT TTCANCGGTG GGTAATGGAG ACATTGCCAA ATTTATATTC TGTAATTTTN CGTTGGGTGA GGGGAGCATT ACATCATTAT ATAATGGTAC TTCCTCAAGT TGCTGGTCAT CAGTTTCTGT GTCGTTGCTG CCAAAAATCTA AAGATATGAT TGTNTCTCCA GCGGCTGGGG CCAGCAAAGT TAAAGCATCA GGTTCCTTCT TAAGTTT

SEO ID NO:1234: (Length of Sequence = 313 Mucleotides)

CCAAGAAATC TIAATINCIT TATIGITIGA CTITITGACT CAACAATITI TITAAAACIT TITGITTITI NCTGAAACGI TCTIGITGIT ATGAGCCTIT TGTTTIGINC TCGTTAAATG CACTCGACCC AAAATTGGIT TGGCATATCG AAAAGGAGAC CAAGGAGGGA GGGCTGGGG CGTGGGAGGT GGGGAGGAC; CCCGAATGGA CAGAAAGTTG AGGATAAGAG AAGAGGAACA TAGAGACAGC CAGAAAGACA TGGGGAAAGA GTGTTGGAGA CTAAGAAAGT GGAAAGCCAAG CCAAAGCCAA AAG

SEO ID NO:1235: (Length of Sequence = 386 Nucleotides)

CTCTCTCAGC ACAGCCTGGG GAGGGGGTCA TTGINCTCCT CGTCCATCAG GGATCTCAGA GGCTCAGAGA CTGCAAGCTG
CTTGCCCAAG TCACACAGCT AGTGAAGACC AGAGCAGTTT CATCTGGTTG TGACTCTAAG CTCAGTGCTC TCTCCACTAC
CCCACACCAG CCTTGGTGCC ACCAAAAAGTG CTCCCCAAAA GGAAGGAGAA TGGCAGCCTC CACATCTCGG GTTCAAGTGA
TTATCCTGCC TCAGCCTCCA AGTAGCTGGG ATTGCAGGTG TGCACCACCA TGCCTGGGTA ATTTTTGTAT TTTTAGTAGA
CACGTTTCA CCATGTTGGC CAGGCTGGTC TGGAACTTCT GAGTGTAAAT GATCTGCCCA CCTTTG

SEO ID NO:1236: (Length of Sequence = 401 Nucleotides)

SEO ID NO:1237: (Length of Sequence = 372 Nucleotides)

TTAACTOTT CINCTOTICA GIOGGATTAT AGAGITGGAG CAAATGICAT GATGANCITI NAGGOOTAGG COTGGNOTOT
TGAGGIGIGT GIG.GIGIGT GIGIGIGIGT GIGIGIGIGT TICTITCICC ATAATAGICC CAACCOTAAA CAGGGGTATG
GCACAGIACT TCITATGAAC AAAAGIGCTA TIGGICTACA AGGGGACTIG AGCCIGCACT AATIGIATIT GATTAGGATT
TTIGIGCTGT CIGTATGATG TITAACCACA CIGTCAATTA CAGACTICCT TTAAGGAATT TCCAGGAAAC CCCCTTACCA
TAAGAGITTA AATTAATAGT TINCTAGTIT AATGACAGCA GITGGIAAAG GA

SEO ID NO:1238: (Length of Sequence = 304 Nucleotides)

GGACAAAATT CCAATTATTG TAAATGTAAA AGAAAAGACA ACAAAAATAA GCTAGAAAGA TGAAAGCTAA AAATTCTATT
TGAACTATGT AAGATGATGA CAGATATTAA ACAGTAATTA GTCATGAAAC AATCATTTAA ATGCTTTINC CAGGGGAACT
GCAGAAGTTG AGACCCTCAA AGAGCATGCA AGCTAGTAGG GAGGCTGCGA CTCATACCTT TGAATCTTTC TGTTCTGCAA
ATTCTCAACT CTTACCAATT TAACTCTGCA GTACTGCTAT GGAAATTACA TAAGAGTAAA TTGG

SEO ID NO:1239: (Length of Sequence = 389 Nucleotides)

TGITATAACT GGCACTITAA TITGITTITG GAACTAGAAT TIAGGGGCAG TIGGATGAAA TIGCAAATIT AGAAGGGGAA
TAAGAATITC CTAGTGCTAT ATAAAGAAAT GATGATGGAG ACAAAAGCCT TGCTTTCCTC TITTTAGAAT TIATTINCGA
TTTINAGCAT ACTGTGGGGC TITTAGAGCT AATATGATCT AAATNCAGAA AATTTAATIT TCATAGTAGG CCAGGTGTGA
ATTACTTATG TITGCTATAG AATGCTTATT TAGACTAACA ATAAATTTAC TITGCTTTCT AAGGCCAGTC AGCGAATGTG
GGGATGAGGC AGGATGTTTT AAATGAGCCA GAGATGATCC NCAAGGGGAA CAGTCGACAC AGAGGTCTT

SEO ID NO:1240: (Length of Sequence = 365 Nucleotides)

CTCCAGCCTG GGCGACAGAG CAAGACTCCG TCTCAAAAAA AAAAGCCTTC CTTGCCAGGT GAAAGCAAGA GTGGTATGGA
ACATTTATTT AAACATAAGA AGCAGAAGGT TCCTCCTCTT GCAAGTATGT TTTCTCTAAA TGTAGCATTT CCACTGGAGG
AGGTGGTCTG GGTGGATCGT TAATATGTGA GGATTGTNCA GCCAGGCAGA TAACCACGCC TCTGCATATA CAGATACCCA
CAGCCCAGGA ATCTTGAGAA CTGAATGGCC CATAACAACC TCTGGCACTA TCGGAGCTGC AGGGAGGCTT GGCTGGGGCT
ACTCCAGTCT CAGGCCCCTG TTTTTTAGCGG GAAGTCACAA GGAGG

SEO ID NO:1241: (Length of Sequence = 350 Nucleotides)

GOGGAGGGGG TAGGETCTGC NCTGTCTGTN AGGGGCTTGT GGCTTGGGGG GTGGGCTTTG CATGGTCTGG CCTCTTGAGT
CCAGCCCCGT CCTGATGGGG CAGACTTCTG TNCGTNCTGC TTCCTGGGTG ATGTCAATAC TGAATGAGAG GGCAAGAGAA
GGGGAAAAGGG AACCGCCCAT ATGTNCTTCA CGTGCTGCAA GGGGGCTGTN TGGTTCCCAT GAAATGGTCA GCAGAGACTT
TGGGGATGGGT ATGACTCGTG GGTCACAGGG TTGACTAGAC AGAATCTAAA GAAGGTGGGT GCTTAGCTNG GAAGTCTTCA
GTAGGAACGG ATCACTGTGA AGCTCTAGGG

SEO ID NO:1242: (Length of Sequence = 392 Nucleotides)

CTCTTACGAG TGAGGITAAG TATTGAACAG ATATTTAAAA GCTATAAGCT TTTAAACAGA ATAGGCATAT TGCTGATACC
AGTATTTGAC AACCGCCTTG TTTTTTCAGA TAAGAAAACT GAAGCACAGA GACCATAAGG CATCAGCCTA TGGTCATTCA
CTTCGTGGTA GTCAGGTCGG AGGTCACACC AAGGCCCTCT GGCTACTGAT AATCTCTGTA CTAGGCTGCT TTTCAGTAAA
CTCTTGAATG AATGAAAGAA AGAACACATA CTGTTGACTT TTGAACTTGA ATCTAAACAA AACCTATGTT GAACTTTAAG
TCTGTAATCT AAGAACTATC AAACTTAAAC TTGTTACAAA AGGNGGTGAT GAGCACAACC ACTTTCTTTT GG

SEO ID NO:1243: (Length of Sequence = 377 Nucleotides)

GTGGGGCAGG CGTGAGGTAG GGGTGGGGTG GGGATGACAG TCAACACAGC TTGGACCAGA AGCCCATGGC GCCTGGNTCC
CTGGAAAGGC ACAGGGCACA GACGGATGCC GCCTTTNITG CTGGACACT CCTGCCACCA TCCACAGCTC CCCCGTCACT
CCACGTTCTT GTACTTGGTG AACAGGTTGT AAAGAACCCT CAGGGTGGAT TTNAGGTCCA AGTTAACCAC GTCTTCAGGA
CGAGCCTTGG GTTTNITNAG GCCTCCGTCC AGCATCAGCT CAAAGGCGAA GGACACATIN TGGACCTTCT GATCGAAGCT
TTCCGGAGTC AGGTAGAAGT GGTGGAGAGG AACAAAGTAG TCTTCCAGAA GGCCCAT

SEQ_ID_NO:1244: (Length of Sequence = 312 Nucleotides)

ATTITINCAT CAATGITCAT CAAGGATATT GGICIAAAAT NCICITITIC AGTIGGGICT CIGCCAGGCI TIGGIATCAG
GATGATGCIG GCCICATAAA AIGAGITAGG GAGGATTCCC TCITTINCIA TIGATIGGAA TAGITTCAGA AGGAATGGIA
CCAGCICCIC CITGIACCIC TGGIAGAATT CGGCIGIGAA TCCATCIGGI CCIGGACIIT TTITICGITG GIAAGCIATT
GATTATIGCC TCAATTICAG AGCCIGITGI AGGICIATIC AGAGATTCAA CITCITCCIG TITIAGICIT GG

SEO ID NO:1245: (Length of Sequence = 320 Nucleotides)

GEACIATOGIG CACATOCAGG COGGCCAGIG COGCAACCAG ATCGGGGCCA AGITCTGGGA AGICATCAGI GATGAGCATG
GCATCGACCC CAGCGGCAAC TACGIGGGGG ACTCGGACIT GCAGCTGGAG CGGATCAGGG TCTACTACAA CGAGGCCTCT
TCTCACAAGI ACGIGCCTCG AGCCATTCIG GIGGACCTGG AACCCGGAAC CATGGACAGI GICCGCTCAG GGGCCTTTGG
ACATCTCTTC AGGCCTGACA ATTTCATCIT TGGTCAGAGI NGGGCCGGCA ACAACTGGGC CAAGGGTCAC TACACGGAGG

SEO ID NO:1246: (Length of Sequence = 275 Nucleotides)

TTTTTTTTT TTTTTTTTT ATCTGACAGC AATAGATTTA TTAAGTATCC COGAAAATAT AAACACAAAC CAGTAAAAAA
CAAAACCGTA AAACGTCAGG CCTGGAGCTG CAATAAGACA GAGACAGGAG CAGCTCACAC GTGGCCTAGG TGGGGAGGAC
GAGGCCATAA ATACTGCAGG AGGGCGGCAA GGGAGCCCTA GGGCGAGGGG AAAGCAGGGT NTCGGCAGGG AGATGGCTCC
GGGGGTTTAG ACACTGCTGG CTTCGGCCCC GGCCG

SEO ID NO:1247: (Length of Sequence = 384 Nucleotides)

GGTCTTGCCG GAGAAGTACC CCCCTCCAAC CGAACTITTG GACCTGCAGC CCTTGCCCGT NICTGCTCTG AGAAACAGTG CCTTTNAGAG TCTTTACCAA GATAAATTTC CTTTCTTCAA TCCCATCCAG ACCCAGGTGT TTAACACTGT ATACAACAGT GACGACAACG TGTTTGTGGG GGCCCCCACG GGCAGCGGGA AGACTATTTG TGCAGAGTTT GCCATCCTGC GAATGCTNGC TGCAGAGCTC GGAGGGCCCG GCAGAGCAAG GTATACATGG ACTGGTACGA GAAGTTNCAG GACAGGNTCA ACAAGAAGGT GGTACTNCTG GACAGNCGAG ACCAGCACAG ACCT

SEO ID NO:1248: (Length of Sequence = 225 Nucleotides)

AATTTGGAGA AGATAGAAGT TTGAAGTGGA AAACTGGAAG ACAGAAGCAC GGGAAGGCGA AGAAAAGAAT AGAGAAGATA GGGAAATTAG AAGATAAAAA CATACTTTTA GAAGAAAAAA GATAAATTTA AACCTGAAAA GTAGGAAGCA GAAGAAAAAA GACAAGCTAG GAAACAAAAA GCTAAGGGCA AAATGTACAA ACTTAGAAGA AAATTGGAAG ATAGA

SEO ID NO:1249: (Length of Sequence = 393 Nucleotides)

CATCTATAGT CCATACATAT CTATAATGGA CAGAAATATG AGAATGAATA AGCAAAGATA CITATGTACA CCAATAATAA AGTAAGAAAG GIAAAAAAAT TCATGTAATA AGAAAAAATA ACAACCCAGA AATTTAAGAN TTAAGTAGTA GTCAAATCTA ATTGGAATAA CTCACCTATA TAAAANACAA GAGGAAGGAA ACTTTATACA TAGGTCTGGA AAATATCACA ACTATGTTCC CAGAAGANTG TTTATCTCCA CAGCATCCAA CCTAGTGTCA TGCACACAGT TGGGACTCAG CCACTGTTGC CTGATTGATT ATGAAGNCAG TCACTGTGAT CAACCCCAACA GTAATTGAAC GTTCATTTTT AATANGGTCA GTGTTAAATC TGT

SEO ID NO:1250: (Length of Sequence = 391 Nucleotides)

CGTATGTATC TITNATITAC ACTGCACACC TIGCAGCATC CITACCITIGC AGAGTACTGA GICCIGGCTI CATGAATTIN
ATGICAAGTA AATGGGITTI AGICATCCCI AGITCATGIG CATGINCCGA GAAAAAGGGG AGCITCTAAA ACATGIGCGC
AAACCACAGG AAACAGIGCA ATCCIGIGIG TCTCCTATTC CACTTACTCC TCAAGGCCCC AAGGTAGGAC GCATGITTGG
TGGCTITCTG GCTTACAAGT TCCAGTGCCI ACTCCCATTC CCTCAGAGGT TTGCTGTGAT CACTGAGGGG AAGCAGAATG
GAGCATCGIG TGGTCCTTAC TGGAGGACTC CTTGCAGCAC CTGAAACAAC CCAATGITGT TAGAGGCAAA T

SEO ID NO:1251: (Length of Sequence = 320 Nucleotides)

GCCTCANAAG GTCCTTCCCA GGCTTCTCGC AAAGGAAGGC ACTGCCTCIN CACACCTTGT GAAACCTTTC CAGGACCTCC CAGTCAGAGG CCGTCTGGTT CTCACTGTCT GCAGAGCGCC CTACAGCCTG TCTGTGGGTG AGCGTGTCTG TNAACTCTTG TCCATCTCTT CTGTGATCTG TGTGCTCCTC GAAATAACTG ATTTTNTCTC ATACACCTTG GAATCCTGAG TCCACAGAAC AGAGGCTCAT ACAAAGGAAG CTTTCAAAGA GTGCTCATCG ATTTCTAGGAN TTCTTGAAGA CAGGCACCAN GTTTTGTTCT

SEO ID NO:1252: (Length of Sequence = 367 Nucleotides)

CAAAAAAACA AAACCAGITA TGCAAAAACA AGAGTACAAA ATGCCCCTTT CTGAAGCTCA GTTTGAGAAA CTGATTTCGN
ATCTAGCITA TTGATTATAC TCAGTTTCAA TTCTCCCTGT GCAAATAATA CATAAAGTCA TTAATGATGA TTTGATGANC
TGAAATCATC TTCGCTTAGG ATCGTTTGAC ATCATAACCC AAATATAAAA AAGTTATTCA AGATTCACAG AGATAAAACA
TTCCCTCCGA AACATAATTC ACCCATGTAT ATATAATANT TTTNGAACAT ACTTTTTAAA CATAAAATCA CAGTCAAGGC
AGTGATAGCA TTGCATACTC AGTGCATTAT TTCATGTAGT GCCTTCC

SEO ID NO:1253: (Length of Sequence = 393 Nucleotides)

TIGCTITCAA GACAACACIC AGTIGCTAAA CCCATITCCI TITCTITIAGG ATATTITCAT TGICTCCGAA TITTAGAGCT GAAAAGTGCC TTAGAGATCA TCTAGTICAA CCTCTCCGTT CAAATGGAGA ACCTGAGCCA CTAAGNITCA CAGGNGAGTA AGATAATTGA GCAAACAACT CCAAGTAATG ACAGAAAATT ATAGGAGAAT CAGTACAAAC TGTGAGAATT TACTATGTTG TTAGCATCCT AAGTATGAGT TTAGAAAAGG TAGAAGTTAT AAGAAAAGTT AAATTGTTTT AATATGAATG GGATTCCACT GTTACCTTCA NGNTAAAATG GAGACATACT TTTTNCTTTA GGTATTATAG TTAAACGAAT ATTGTATCCN GTG

SEO ID NO:1254: (Length of Sequence = 377 Nucleotides)

CAAAAGCAAG GAGATGAGIT GAAAGACAGI TITNCITTAA GICATCAGIA TGGGATGICA GCAGAACAAA AATTAAAAAG ATTAAATTINC CITTIGATCI AAAACITCCI TAGIITTGAGC AGIAGGIGCI ACAAAATTAI TIACATATCI TAGIATCATA GITAAATGIA ATGIGITTAG GAGAGGAAAA CAAAAGATAC ATTINCITTA AATTCATTAA GAAATTITCA AATTCACTIT GTAGCCCATG CICAATAGAA TIGGGCTGIG TIGGIACATT TGAAACACTG TITATGITGC TIGAAACACT TATTINTITA ATGCCCGATG TGATGATGCC TATGGCCCGAG ATCANATATA GCTAGATTGG CTAGGCT

SEO ID NO:1255: (Length of Sequence = 307 Nucleotides)

ACAAATGITA GCITICICIG GCCIAGAAAA AGAATAGGNI CATCAAGICA TAAAACGAAG TATGINATIT CAGCACCICC ACAAAATGIC TICATCAAAG AAGAGAATCC CATCACATGI TACCICTCCI CICTAGGITC TICAGCIGGG GCITIGCCIG CCCCICTACC TATGGCAGAA CCCACTGACT CGIGGNCIIT CCAGCACTIC CACTIGCCIC CATTAGACAC TIAACCCCGC TGNCCGCIGC CTCATGCCAG GGAGGGCCAA TCTCCAGNCA ATGCINCTGC TGGCTGTATG ATGACTG

SEO ID NO:1256: (Length of Sequence = 326 Nucleotides)

TIGAGAAAC TGCAGAAGCT GGAAGGTCAA TCTCTGACCT TCTTTCCTGA GACACCTTCA TGTGACAGGT GTCCCACTTT
ATGCCTGGAG GGAAGGAATG ATAACACAAA GATACCAAGA AGAATGTGAA GAGACCTTTC TCAGTTCCCC CCAGTTCAAG
ACCATTATAT CGTACCCACT TTTGTCTAAT CANGCTTCTA TATGACTATC CATTCTTTAT CAAAACTAAA CATAGAAATA
TACGATTATC TCAATTTCTG TCTTTGNTTC TGAAGGCTCC TGTGTCACAT AAAACTTACA TTAAATAAAT TTGTATGTCT
CTCTTG

SEO ID NO:1257: (Length of Sequence = 224 Nucleotides)

TTTTTINAGA GGGATTCTCA CACAGTCACC CAGGCTGGAG INCAGTGGCG INATCTTGGT TCACTGCAAC CCCTGCCINC NGGTTCAAG CGATTCTCCT GCCTCAACCT CTCGAGTAGC TGGGACTACA GGCACCTGCC ACCATGCCCA GCTGATTTTC CTGTTTINAG TAGAGACGTT GGCCAGGCTG GTCTCTTAAC TCCTGACCTC AGGTGATCTG CCCG

SEO ID NO:1258: (Length of Sequence = 329 Nucleotides)

CAGGGGITTC TITCCCTACC CITTGIGAAA ACCAATCAAT TACTAGATGA GTGGATGGAT GCAGAAAAAT CTGGGCTGAG
CCAAAGTCCC TITTGGAAAT ACAAGCCATA ACAITCGAAG GACATCAGCG ACCITGGCTT GITTAGGTGA TITTNCITCC
AGCTGCAGGT AGTCTTGACA AGGAGCGITT AANCAGAAGG CTCAAGATGC ATTCCTTGTG TAGGTGGGNG AGAGCACTTC
TAATGTTAAG TGGGGTACAG NTCAGCTGCC CCCCCACGTA GCCTGGACAT CGTCTINICC CCATAATCCT TNNCATCCCT
ACAAGGTCC

SEO ID NO:1259: (Langth of Sequence = 374 Nucleotides)

GGICATATGT TACATGCATG TTTGINCAAT ATGIGTATGT CAGGNCCATC TYCACAAATT TNCATAGCCC CTTCTGTGAT CTGTTAAATA GGTATATTTA GCCAACCCTC TCAGCATAAA GCTCCTACCC CAGCTGCTCC CCCTTCCAAG TGCCTGCATC TGCTCTTGGC TGGGAGCTCG CITCCCAGCC TGTAGGATGG CCACCTTGAA GGCTGTAACC CTTTAGAAGA AATAAAGTCT
CCTTTTCTAA ATTTATAGAT TGTATGATTG TTTTAAGCTA ACAATAGCAA TGGCATTATC ACCTCACTTT CTGTGTGTGT
GCTTAGCATA GTACCTGACA CATGGCACTT GAGTTGGTAG CTATTTTTTA ATAT

SEQ ID NO:1260: (Length of Sequence = 353 Nucleotides)

CTCAGTCAAA AATAGCAGCT GCTGAATTAG CATGGGCATA CCAGGCAAAT AAGCCTGCAT TGTCATAGCG TTCCCTTGAT
TGCNCTATGA AACTGAGTAA AGTTTCATTT CCTGATTCAA GAATTGCAGC TAAAATATCC TCTGGACAAA GAAGAAGGGA
AATTTTTTGA TAACAGATGT GTTGACTCCT TACAGTATAA AGCCAATTTC TGTCATATCT CACCAACAAT CCTGGTTTCT
ACAGTACATC AATTTTAAGT AATGGGCAA ATCATGGCAG CAAAAATATG TTCCCTCTAG CTGTTAGGGA CTTTGACTTG
NAAAACAGGN GTTTCAAATC ATCTTCTTCA TTT

SEO ID NO:1261: (Length of Sequence = 294 Nucleotides)

TTAAAACAGA CAGCTAAGAT TATAGGAATA TITTAAATAA ACAGCATTTA TITTAGACAC ATITCAAATA GAAGCCACAA
TAATCAAATA GATATTATCT GAAAACGITT CAAAAATATT AACCCTTTAA ATGITCTTCT CIGAAAAATT AGITTATCTT
TAACAAATTA TICTGAATTA TIGTGICAAC ATATAAGGIT ATGCATATAT ATNCACTIGC TGGICTCTAT GITAAAGCAA
ACTAGGTAAA AACTAGAGGA AATATCTGGA NCATAAAATG GTTAACAATT TACG

SEO ID NO:1262: (Length of Sequence = 292 Nucleotides)

ATGATGAAGG GTTGGAGTGA TGCACCTAGA AGTGAAGGAA TGCCAATGGT TGCCAGCAAA GCACCAGAAA CTAGGGAGAA ACAAGGAAGG ATTCINCCAC AGTTTCAGAG GGAGAATGGC CCTGCCAACA CTGTGATTTT GGACTTCTGG CCTCCAAAAC TATGAGACAA TAAATNCCTG TTGTCTTAGA CCACCCAGTT TGTGGAATTT TNTTACAGCA GAACTAGGNA ACAAATACAG TTTTTTTTTTG CAGTAAAGAA GTTTTAAATC TGGGTTATGT CCAATGTATC AA

SEO ID NO:1263: (Length of Sequence = 303 Nucleotides)

GGITGAGGIT GTGGGTAGGA TGAGAAGACG ACAGGATGAA TCTTACCCCC CAGCITTAGI GGAATTCIGI GAAACACCIG GGAATGIGIT AGCATCAGGA GAATICCTCT AAGGIATGAA GAATGACAAC CIGGGACCIT TCTIGIAGGI GGCTCIGAAC CTAACTATIC CCCAAAGATI CCCAAGIGGI AGGAAGGAGG GGGIGCAGAG GGATATTAAT CATGGICATI AAGICTCAAA ACATITCTAC TICAAGIGAA TACATTAACC ATGCIGAGGC AGITGAACAA CIGAATGCGI AGI

SEO ID NO:1264: (Length of Sequence = 313 Nucleotides)

GGGACTACAT CAAGCACCTG CGCGACATCT GCGAGGGCTA CGTCCGGCAG TGCCGCAAGC GCGCAGACAT GTTCAGCGAG
GAGCAGCTGC GTACCATCTT CGGGAACATC GAGGACATCT ACCGCTGCCA GAAGGCCTTC GTGAAGGCCC TGGAGCAGAG
GTTCAACCGC GAGCGCCCAC ACCTGAGCGA GCTGGGTGCC TGCTTNCTGG AGCATCAAGC CGACTTNCAG ATCTACTCGG
AGTACTGCAA TAACCACCCC AACGCCTGCN TNGAGCTCTC CCGGCTTACC AAGCTCAGCA AGTACGTGTA CIT

SEO ID NO:1265: (Length of Sequence = 290 Nucleotides)

TTTCTATGIG TAAGAGAAAA TAGAGATGGG TATACATACT GITGITTTTT TTGAGCCGAG AAACTGIGIG ACCGGGGCCT CAGGIGGIGG GCATTGGGG CTCCTCTTGC AGATGCCCAT TGGCATCACC GGIGCAGCCA TIGGTGGCAG CGGGTACCNG TCCTTTNITG TTCAACATAG GGTAGGTGGC AGACACGGGT CCAACTCGCT TGAGGCTGGG CCCTGGGCGC TCCATTTNIT MITCCAGGAG CAINTGGTTC TTTGGGGCA CCCACGCAGC CCTGAGGATT

SEO ID NO:1266: (Length of Sequence = 322 Nucleotides)

CGGACAGATG TCACTCTCGC CCGAGAAGGG GGACACTGTG ATGGTGTTCT TAAGCTCATA GAGTGGCAGG TTGTCTGAAA
TGCCACCATC CACGTAGCGC ACCCCCTGGA GGGAGGGAGG GATGAGGCCCA CAGTACACGG GGATGAAACC NCTGCAGACA
TTGGCCTGGA TGAGCTCGTC CTTGGAGTTN AAGTGGGATA TAATGACATT NTCGCCGTCT GACACGCGGG TCAGGGAGAT
GCCCAGGCGC CCACTGGCAT GCTCATGGCT ATCAGCAGGC AGGACCTTNA GCAGGAAACT CGGGATGATC TTTTACCAGG
TT

SEO ID NO:1267: (Length of Sequence = 310 Nucleotides)

GIAACCCATC CCATAGGGTT GINCIATGIA TICTIGCCAG GIGGGTTGG AGCACCTTGT GAGCTCAGCA GCCCAACATC
GATAGTAAGG GAGTCAGGGT TICTICATCT TCCCTAGAGT TAGAACTCAC TICTIACAGCC ACTGTGTCAG GGACCACTTT
GAGCGCCCTT GGCACCTGCT GGCTGGAAAT CAATTTAGCT GTAATGGATC TGGCCCAGCT TITCCTCTCT TGGGTCATCT
GCACTCATAG TGGTTGAAGC AAGATCTACC AGATGGGGAC ATTGAGATGG TCCCTTTCTC CTTCTCATTT

SEQ ID NO:1268: (Length of Sequence = 338 Nucleotides)

GGGCIGCICG TGAGGATGGG ACAGCATTGA CITACIGGGG AGACICCCIT GATGACAGCC TIACACGGIT AITCATAAGG AGGCAGGAAG AGGCCCAAC AGIAAGCAIG TICIGGGIGG TCITCGGGGI GCACATGIGC AGCAGCIGIA CCIGCITGCI TGIAIGITAC AIGICTCATT AACATCIGAA AICICCACCC GGGAGIGIGI TITINACIAT TATAATGAGC AAAGGITCAG TCIGAGGACA GGIAAAATCA AAAATGIGCA CCCICTIACG GGGGAAATIC CITACIGGAG CIAGIITIGGC TIGAAGNGAA CTGGACIACA GIGIGAAT

SEO ID NO:1269: (Length of Sequence = 363 Nucleotides)

CTGCTAGAGA GTATITCAGG GTCTGCAGCA TGTTGTTAAG GCCATTAAGC ATATGTTAAG GCCATTAAGA GCAGTAATTA
TAAAAGGGCC CTGCTAAAAT AAATATCAAG TTCCCTTAAG AAACTTCAAA ATTATGAAAG TTTCAGGTCA TTATTTTGCT
ACAAATGANC TTAGCAGCTA AGNAAAATGT CTGCCTGCTT ATAAACTAAA TATGGTATAA TTATATATTN CTNTTATGTA
TTTCTAAAGC TACATTTTCA CCCTAACTCT ACTACAAAGT AGTTTCGGGA AACAAAGTAA AAGCAGGGGN AATCCAACTT
CAAATATAAT CAAATATAT

GATAAGIGAG ACIAATGGAA TOGITICOCT CIAACITCAT AAAAACITTA AGGATTATCT TICTIGAGIT CICTGTATTT
CIGTITITAGA AGAAAAGAAC AAAATITCAG AAACAAGATT ATAGIGCTIT TICTIAAAGIA TAAATACGIG GGCCCTATAC
AAACIGGCAA ATTCATTAGI CITAAAGCAG ACATCCAAGC TATTGIGGGI GITTGGATGA CACCATTITC ACAGTAGGAA
ATCATTTCAT TCTGAGCGIG GGAATCGGCA TTGGITTAACG CATGAGGITT TATGIGGIAT AAACACCTGG GAAGTGAGAG
AAAAGNCAGC ACAGAAGCIC TGTGGGAGCT CTTCTGAGCA TTG

SEO ID NO:1271: (Length of Sequence = 335 Nucleotides)

ATGCCTCTGG CTTGTTTGAC TGCAAAAGGT GATGTGCAGG GGTAGAGGTA GGGTACTAAT TTACAGTCAC CAAAATTAGT ACTGATATTA ATCAGTTTAG TTGGATTAAG ATGAACAATG TTTAATGCTT TAAGGATCAT TTTTTTGCCCC AACAGGACTG TGCTATATTA AATGACACCG TGCCCAAAAG CTCAAAAATT ACATAGAAAG TAAAGTACTT CTTGAATACT AAAACAGTTA AGCATAAAAAG GTTGTGAATT GGTCCCAAAG TGATATTAAC TTAAACATTT AATCCTACGA NCTATCTTAG CTGTACCCTC TAAAAAATGCT TAGGA

SEO ID NO:1272: (Length of Sequence = 323 Nucleotides)

GITTTAGATA TITTAAGATA TITTAACTGTC CCCTGTGGCT TITTAAGGAAA AAATAAGTAT AAATNCTTGA ATATTAAGAN TITTAAATCA GCTAAATTCA GGGCCAAGAA CTATTTAAGA TGATTCANTG AGAAAGAAAA GGACCTAACC TGGAAAAAGA GTTTCAAATA TGCCAGTACG TAGGGTATTT NIGGAAATAC ACAGTCTAAA ATTAAAAATT NNAACTNATC AATGGAATTT AAATCTATAG CACTTTAAGG CTGTGGAGCC CAACANTAGG GGNTACTTTG GGGGCACATG ATCTTTCAAA ACATAAATTA GGG

SEO ID NO:1273: (Length of Sequence = 368 Nucleotides)

GCAATGGGAT CTGGAGCCAA AGAAAAATAT ATCTGAGTTC TAGCTCCTCA CTAAGTAACT GTGTGATAAT GGGTATGTCA
CTCACCCTCT TTCAGCTTTG GGTCCTTTAT GTGTAAAAGG GAAAAACATA TGCCTACATC ATAAGGCAGA TGTGAACATC
AAATGTTATC AGTAACTGTC AATCTGTTTT ATTAATTGTA GAATGTCCAA AATATTAGTT TGTATGGACT TCAATGAGTA
TGTTTTGTGG AGTGGAGTGG GGGAAAGGGA TCATTGCTTA CCCTCTGCAC ATATCATGTT TCAGCCTAGT ACAAGGCAGC
CATGAGCACA AAGGGCTAAG CTACTTAAAT CAGNCCCCAA ACAACTTC

SEO ID NO:1275: (Length of Sequence = 319 Nucleotides)

AGATTACTCT TIGCAGAATT TIGGITAATT GIGAAGCIGA AATATCCIGA CICTACCICA AAGITAATGI TITAGGIAAC
TGAACAGGIA TICTINCCCAT TACTAGIATT GAAGICAGAA TACAGAAACA AATAGITACT GCCAGAAGCA GAATGGAAGA
GCCAAAAAGT ACACAAAATG GACGCCATAA ATNCTGAAAT AAAAGIGTAT GATGIGITCT GAGICACIGT AGAAGICATG
CATTTATTAT CAAGATAGAA AAGAGCAGAG AATGACGIGG GACATTGGIC CICGGAGGGC TICGIANGIG GITCGGICC

SEO ID NO:1276: (Length of Sequence = 324 Nucleotides)

CIGCATIGGG CAGGACAAAA CCTGCCAGAT TCAGAAGGIC ACGANICATC TGGCCTITAA TGCTGATATC CAGIGGAGAG
CTGGAGIGGA GGCTTGGGGA AATATIGACT TCCAGGACCC AGGGCTTGAG GTTTTCNTCT AGCATGATGT CAAAACCAAA
GAGTTCATGG CAGCTATAGG GCCGTCGCAC ATACATCTIG AGCAGGCTGG TCACATAGGG CTCTGACGAG ATGATAGTTT
TGACAACAAC ATCCTTTATC TTCTCCCAGA TGGCGTCGCT ATTGATTNCC CTTCTGGGGT CAGGTAGTTC CACAAAAGCC
TTCA

SEO ID NO:1277: (Length of Sequence = 388 Nucleotides)

AGCAAGGCGG TGGGTAAGT NTGGACCTIT GTGTACCAGA GAGAACATCA TGGTGGCTTT CAAAGGGGTC TGGACTCAAG
CTITICIGGAA AGCAGTCACA GCGGAATITC TGGCCATGCT TATTTTININ CTCCTCAGCC TGGGATCCAC CATCAACTGG
GGTGGAACAG AAAAGCCTIT ACCGGTCGAC ATGGTTCINA TCTCCCTTTG CTTTGGACTC AGCATTGCAA CCATGGTGCA
GTGCTTTGGC CATATCAGCG GTGGCCACAT CAACCCTGCA GTGACTTTGG CCATGGTGTG CACCAGGAAG ATCAGCATCG
CCAAGTCTGT TTTTACATC GCAGCCCAGT GCCTGGGGGC CATCATTTNG AGCAGGAATC CTCTATCT

GGACTIGIAC CCTGGGTGGT GAGAAGACCC TGATTGGTTT TATTAGTGCA TTTCTGTAAG TNACTGGGAT AATCATGTTC
AGTTCAGCAT TTTATGTGAG TTTCTGAAAG CNCTTTAATC AACTCCATAG ACAAGATTAT AGTGTTGCAC AGCAATAGGC
ATGGGCCCATG TCTGCACTGG AGGTAAGTTG CAAGGTACAC CCACGGGTGA TTTATCACTC TTACAAAGAT GATAACTAAT
GAAGACCGCA TCTAGAATGC TCTTACTGGA GATGGTTTAC AGAGCATTTT TAATCATCAT ACTTAGATTT ATATTAATAT
TTCTTTTCAA ACTAAATTAT TCCAAACTGT GCCC

SEO ID NO:1279: (Length of Sequence = 347 Nucleotides)

CCACTICAGI GCITCIGIGI CCCGAAAAGA TCITTIGACG CATAGGGCCI AACIGIAATA CACTIAAAGG ATAAGICICC ACCCCAAGGI GAACAIGGGI CAIGIGITAC ACGCACATTA GITCATIAIC CAIGIGIGAG GACCICCITI GIGAACAGIC ACAGCICCIC CIATAACCIG TIAAATAIGT AIGITIGATC AACCCATICA ACTIAAATINC TIGICITACC TCICCITCCC TCAAAAGIGCC IGGCIATACT TCCCAGCCIG CGGGAIGGCC ACCITGCAGG AIGGAACCCI TIGIAAGAAA TAAAGICICC TTICCAAAAIG TACACATIGI AIGACIT

SEO ID NO:1280: (Length of Sequence = 344 Nucleotides)

ATCCFTAGCA TGCCTGINIT ACTGAGACCA TAAACTTTT TNITTTCCTT CTGCCTTCAC CCAGTGIGIG TTAAGTCTTG
CTTGTTAAGC TCCCACACTT AAATGGCTGC TTGCAGAATT GCAAAGGGAC TAGGGAGAG ACAAAAACAG ATATGCAGGT
GGTGGTTGTT AACCAGACAG GATTTCTAAG GAGGGTTCAG GCAGTCAAGT GGTTTTNTGT ATGTNTTTTA TGTTCATAGT
TTTGAGTTTT ACAATGTGTG AAGCTTACTT TTGCTAGCAT TAGGTATAGT TTATTTTGAA AGAATGAGGC TCCTGAAAAT
AAACATGCCC AGTAAACTAT ATCT

SEO ID NO:1281: (Length of Sequence = 331 Nucleotides)

TEAGGAACAT AAAATGGCTT GGTAAAAGTA ATAAAATCAG TACAATCACT AACTTTCCTT TGTACATATT ATTTTGCAGT
ATAGATGAAT ATTACTAATC AGTTTGATTA TACTCAGAGG GTGCTGCTCT TTAATGAAAA TGAAAATTAT AGCTAATGTT
TTTCCCTCAA ACTCTGCTTT CIGTAACCAA TCAGTGTTT AATGTTTGTG TGTACTCAT AAAATTTAAA TACAATTCEN
TATTCTGTTT CCAATGTTAG TATGTATGTA AACATGNTAG TACAGCCATT TTTTTCATAT GTGGAGTAAA AATAAAATTA
GTATTTTTAA A

SEO ID NO:1282: (Length of Sequence = 310 Nucleotides)

CCATGICAAA TGTAGTITAC AAAGGGAAAG GACAAGTACC TITINTATAGA ATATACAGAC ACAGCATCAC ACCACAGGGC CCACGGGAGG GICGGGGAGA CGACACTITIT TCCCTGGGAA AGGCAGGCTCT AATCCCAGGA ATGGTTCTCN GCAGAGGCTG GGTGGCCCAGG AGCACTGTCC TCTAGCCCCC TAACTCAGCC TCTGCTTCAN CTCGGTTCCC ATTTCCTGCC TCTACCCCCCC AACTCCTTAT AAAGAGCCCC ATGAGCTAAG ACTAAGGAGA GGTTCATNIC CCTTGGGGCCG TGTGCCCCAT

SEQ ID NO:1283: (Length of Sequence = 323 Nucleotides)

ATGAGGATTA ATTATATCTG INICACCCAC ACAGCTCCCC CATACCCATA ATCITTATIT ATTINCTICG TITCTTCCTT
ATACCTTGTT TCAGGCATTA AACCATAACC TGITATTTAT NCTATCCTTT TCAAAACAGG TGIGGACCAT GCACAGATGA
CCTATGACGG GCAGCACTGG CACGCCACGG AAGCCTGCTT TNNTTGTGCC CAGTGTAAAG CCTCTTTNTT GGGATGTCCC
TTCCTTCCCA AACAGGGTCA GATTTACTGC TCAAAAACGT GCAGTCTTTG GGTGAAGACG TCCATGGCCT CTGAATTCTT
CCC

SEO ID NO:1284: (Length of Sequence = 283 Nucleotides)

TTTTTTCACA AGGIGAAAGA CCTTTATGGA CATGACAGAG AGGACCTGAG TTAAGAGGGA AAATACATCT NCATAGCTAG
GTTCACATTC AGGITATGTTA GTCCCAAACC TACAAATTCA ACATGATCCC TATTAAAATC CTACCAATAT AGGITCAAAAG
CTTGACAAGT TGATTGTNAC ATTTATATGA GAGANTAATT AAAAAAAAAA AAAATAGGGC CAGGIGCAGT GGCTCACGCC
TGTTATCCCA GCACTTTAGG AGGCCAAGGC GGACAGATCA CTT

SEO ID NO:1285: (Length of Sequence = 341 Nucleotides)

CATTCINATG ATGTAGAGGC CAAAATGGTA TITNATAAAG AGGAAATTAC TTCTGANCCA CCCCAGCTGG AAACACTGGT AGTATCGGCA GCAGATGTGA TTACATCCGT TITGGTATTA CACATCGTAT TTACAGCAGA CATGACTGAN CTGGGAACAC TGCCCTGTGA GACAGCCTGA AAGTTTTTTIN CAGATTTTNI GTGAACACTG TCTGAATTCA CATTTGGCAA AATGATTCTN CCAGTTTCTC CGGCTTCTGC TAGTTTGAGG CAATCTGTT TATGTGCCCC AGCTGAAGAT CTTTCACTAA CTCGATCTTT AAGAAGCTAAC TGCATTGCTG G

SEQ ID NO:1286: (Length of Sequence = 354 Nucleotides)

GCCCTATTIG TACAAAGIGI GCATGINAGC GIGCGIGIGI GINITGCATI TITCCCCCTI TAGGIGGITC AAATTIGGAA
TITGIGAAGG CAGAGCIGAT AATTAGAGAC AATAAAAATC TGCAGAGTAG ATGGITCCAC AAACAAGACT ATGAAAGAGG
GGATAAAAGA AGAGGICAAG AAAGACICAA GAACAGTATA TAGAAATAAT TCAATTACAT TATGIGIATT TITAAAGAAAA
CATGITCAAA CIGCATGAGA CAGAAAATAG CACTCNGITA TCCTCCTAGA CITCINAAAG TITIGAGTIT GICIGCAATC
TYCTTCCATT AATCGNCTIT TGCCATCTIC AGAA

SEO ID NO:1287: (Length of Sequence = 354 Nucleotides)

CTCTCTCACC CGGTGGCCTA TAGCCCCCAA CGTGGTCAGC AGCTGCCTCA GCCATCCCAG CAGCCTGGTT TACAGCCCAT
GATGCCTAAC CAGCAGCAGG CGGCTTACCA AGGCATGATT GGGGTCCAGC AGCCACAGAA CCAGGGCCTG CTCAGCAGCC
AGAGGAGCLG CATGGGGGC CAGATGCAAG GCCTGGTGT TCAGTACACT CCACTGCCTT CTTACCAAGT TCCAGTGGGT
AGTGACTCGC AAAATGTGGT CCAGCCGCCT TCCAGCAAC CCAC CTGGT CCCTGTGAGC CAGTNTGTGC AAGGAGGCCT
NCCAGCAGCG GGGGTACCA GTGTACTATA CCAT

SEO ID NO:1288: (Length of Sequence = 231 Nucleotides)

TTTACTTAAT TGGTATAGAT TGAGGNTCAT GCATCANCAA GCAGTTTTGA AATTNICCCC AAGTGATTCT NACCIGCAGC CTGGGTAAGA AGTCGCAGGG CTCCTGGATA GTCATTAAGT GAACTGTGGT AAGCACTGAT GTAGCAGGAT TACCTGCCCT ACTAGGTGCC GGAACTGCAT TTNCTTGCTC ACAAGTAATT TTTTTTAAATG TATGCTCGCA TCCCTGCCTT G

SEO ID NO:1289: (Length of Sequence = 329 Nucleotides)

GGACACTGIG AGGGGAAGG ACAATTITAA AATTCCTTTT CAAGGAAAAA AAAGGTCTTT ATGCTTTGCC ATGAGGCCAC
ATTCAGCTGC TATTTAANCT TAATATCTTG AACCTAAAGA ATGCTGACTT TNCCTACATT TCCAGAGTTA GGCAGTATTC
TACACTTAAA GACTACTACT ATTTTNATAA AAGGTAATCT ATTCAAATTT CTTCACAGAT TTCCCTTGCT GGGGATCAGT
TAGTAAAGAA GGAGGAATTC CTCTTACCCA AGAGGAATTG CATTGCTTTA ATTTAGCAAT GTGAGGTAAG GCCTGCCNAG
TGCCCAGGG

SEO ID NO:1290: (Length of Sequence = 297 Nucleotides)

GGAGGCACAT GTGCAGCTTT GTTTCATGGG TAAATTGCAT GTTTCTGGGG CTAATGTGGT TTCTTTTACA GAAAAAAGTA
TCAGAAATAA TCGGTTAACT TTNCTCACAT GGTCTTAACT CTTCTTCAGG AAATATCTAA CTTGTAAGTG CAATCCTTCT

TGIATAGCTG CCAGACCAGA CCCAGATAGA CCATAATAAA ATAAAATACA CAGTCAGTTT TTAATGCAAG CCAGAATGAC TCINCTGIAT CTTTAGCCTT TCCAGGGGGA TACAGTGAAC TCAGATATCC CTGCTTA

SEO ID NO:1291: (Length of Sequence = 317 Nucleotides)

CTATAATCCC AGAACTTTGG GAGGCCGAGG TGGGCGGTTC ACCTGAGGTC AGGAGTTGAG ACCAGTCTGG CCAACATGAT
GGAACCCCAT CINTACAAAA ATAAAAAGCA AGATATGCAA AATAATGTGC CAGTNTGGTG CCGTATACCT TTAGTCCCAG
TTACTAAGGA AGCAGGGTGT CINAAACAGA AGAATCACCT GAGCCCAGGG AGGTCGAGGC TGGCTAAAAA TAGATCTGGG
GGTAGTGGTT AATNGGGCCT TGTGAATNAT TCAGCATAAG GAACTGTCCA ATATTTTTTT AAGCTGTCAG AAAATCC

SEO ID NO:1292: (Length of Sequence = 293 Nucleotides)

GAAGATGGAA ATAGACCACC ATACAAAACA AAAAAGACAG AAGAGAATAT TAGCACTCTG TTGCAAAGGA GAATAGGTAT
GCTCAACTGG TAAGTAGAAT GCAAATATTC CAATATCTGA AAAAAATCCC AAATCCAAAA TACTTCTGGT TCCATGCATT
TTINCTAAGG GATACTCAAC AGGTATTTTA AAAGATCAAA ATACAGATCA GAGAATATGG ATACTTGAAG ATTATGAGCA
AACGAGGATT AAGGNAAACA TGTTGGAGGA CTTTTTTAAAA ATGTGTTAAA GGG

SEQ ID NO:1293: (Length of Sequence = 310 Nucleotides)

TCCCAGAAAC ATTACGGTTT GATATCAAGT TCCTATTTTA AGAGTCACCC ATTTGCCCAC CATAAGTNCC TGGAGAAGGT AGGGTATTAC AGGACTAACC TTCCAGTGGC TGATTCTGGT GGTTTCCACA TTCAGGTTTC TCTGATTTIN ACAAGCTTTT TCCCATAAAG ACTGCATTIN CTTTAAAAGC TTCTCCTGCA AAANAGCCAT AAATTGAAGC ACCAGTGAAG ACAATAAAGT AACATACAGA CCGTTTCATT GGGAGGGGGC CCNGAATGNG AGACAAATAA GTCCCTAGTA AATGGCATTT

SEO ID NO:1294: (Length of Sequence = 275 Nucleotides)

GAATGACGAT GTCAGGGCCA TCAGGAAAGG TAAGGGCCGG GAAACCGGGC CCTTGGAGAA CCCTGCCCAG GGGAGGCCCA
GCCTACTCAC AGGNTCCGAC ACTCCAGGCA GAGCAGAGGG CAGGAGAGGC CCAAAGAGCT AGGTCAAGCA GCTGGCTCCC
CTGGGGTTAA ATACATGGGT TTTTGTTTTA CTGCTGTGCT TGATATACAT GAAGTAATGA ATACCAAGCA ATTCATTTTT
CCTGCATCTT TACTTTTACA TTTGINCTTA GGTTGCCTAA AACATTINAA ATACAATAAA ATGAGTGTAG CAAAAATTAT
TGAAGCT

CAACCTCIGC CICCOGAGIT CAAGCGATIC TCCTGCCICC CGAGIAGGIG GGATTACAGG CATGATCCAT CACGCCCAAC
TAATTITITA TITTIAGIAG AGAIGGGGIT TCTCCGIGIT GGICAGGCIG GICTCGAGCT CICGACCICA GGIGATTCAC
CCACCTCGGC CICCCAAAGI NITGGGATTA CACGIGIGAG CCACCGCGCC AGGCTACTGG TCTCAATTCT TTTGGATACC
CAGAAGCAGA AATGCTGGGA TCACATGGIA GICTC

SEO ID NO:1296: (Length of Sequence = 247 Nucleotides)

GGAAGGAACA ATTGATAAGA ACCGGGGACA TCAGGGAGAG AGAGTATTTG AGCTGGGCTT GATTCCATCG GGTAGTATCT GGAAAAAAAA AAAAAAATCC CAGATGAAAG AATGTACAAA GACATGAGCA TGCAGGGCAC ACTITGGAAA ATGGGNGAAG TCTGACAGGC CTGGGAGAAT GAAGACAAGT TAGCACCAGN TINAGAAGGC CTTGATTACA NGGCCAAAAC TTTTGGATTT TACACTA

SEO ID NO:1297: (Length of Sequence = 246 Nucleotides)

GACTICITAC AATGCAGCAG CAAGAGAAAA TNAGGAAGAA GCAAAAGCAG AAACCCCCAG TAAACCCATC AGACTICGIG
AGACTIATIC ACTATCACTA GAATAGCATG GGAAAGACCA GCCCCCATAG GTCCACTACC TCTCCCTGGG TCCCTCCCAA
AACATGIGGG AATTATGGGA GATACAATTC AAGITAAGAT TTGAATGGGG ACACAGTCAA ACCATATCAT TCTGCCCTTG
GCCCCT

SEO ID NO:1298: (Length of Sequence = 263 Nucleotides)

CATTGCACTC CAGCCTGGGC AACAAGAGCA AAACTCCATA TCAAAAAAAA AAAAAAAAA GAATTGCTGA CCTTTATGTG
TTTCTGTTTA AGTTCACAAC AGTCATAATT CTGTAAAATA CAAGGCAAAA CTGTAGTTTC TGATACTAGT AATATATCTA
AMTCAGTAAG TAAAAAGGAT GTGTAAAATC TTAATAGGGG AAATAATTAT TGTATGANCA AGCAATTTCA AAATCAAAAG
NCACGTTTCA GTATATATTA TAG

SEO ID NO:1299: (Length of Sequence = 272 Nucleotides)

ATCINATIGI TGIGIAGITI AIGGCAGIGG TCICCAGACI TITIGGCACI AGGGACCAGI TIAAIGGGAG ATAAITITICC CAIGGACGAG GGGAIGGGAG GGAGGCAGGG GIGGITICIG GAIGAAACIN TICCACCICA GAAGAICAIC AGGCAITAGI TICICATAAG GAGGCAAAAC CIAGAICCCI IGCAIGCACA GIICACAAIG GCACICGICG CAIAINCCGI CGACAACCCI TITITIGAGGI TCCAIGCICC CCAITIGGCI TI

SEO ID NO:1300: (Length of Sequence = 277 Nucleotides)

ACCACTGCAC TCCAGCCTGG GIGACAAGAG GAAACTCCA TCTTAAAAAA AATGIGTAAA ATGAAGATTA TCATACTACC
TACATCATAG AATTGITTIT AGIGTAAAAT GIGIGTGIGT ACATTTATGI AATAGITAAC ATTTAAAGAG CACCTACTTT
GIGTAAACAT ACTTTGIATG AGATACTGIT CAAATATATA TNCTAATATA TGCAACATAT TATATATGIN AGAATAGGGT
CTTATATATC TTAGGAAGIT AGATCTTATA TGTTTGA

SEO ID NO:1301 (Length of Sequence = 304 Nucleotides)

GGITGCGGGT TATGTAAATC CCAAACTTAT GAACAGGAAA TGTGTACAGT GCATGATAGG TTAAATTITN CTTTATTGTT
GTCCAACGCA GGTCCTTTGG AGAGAAAAAA AGATCACAGT GCTGACCAGG TAACTCAATA GGTTAAGTCA AGGTAACCAT
TGAAAGATAA TAGGATTAGG GAGGTGTTTA TTTTATGGCA TCTTCTCTCA TGGAGTTCTT AGCACTTCGG ACAATTTGTC
TNTTCCCCAC TTTGTACAGC TGTTATGTGT CATTCACCAG CCGGCTGTAT TTAACTTGCC TACT

SEQ ID NO:1302: (Length of Sequence = 335 Nucleotides)

AGITTATTGC CATACAGAAA ACATTTTATA AAATAATATG GTAGACTTCT ACTTCAACAT ATTCACGTAA AAACATCACA GTGCAAGAAA GTGATCACAA TTAAGCATGA AGACATCAAA AGCCAGCCAG TATTTTAACT ACAGAGCAGA ATATTCTTGC TGTCCCTTCC TAGAAAATGT TGGCACATTC ATTAACTGCT CAGGTTACAA AAATCACTTC GTGTCCACTT CCTGTCCTTC AATATATTTN CATAACTACA CTGTGTTACA TTAATGCTGG TGGACAAATT AGCTCCTATA AAATCTAAAA ACCTTTTCAG GTGGGCACAA TGGTT

SEQ ID NO:1303: (Length of Sequence = 316 Nucleotides)

TEGRAGOTETA TATEGTOCOG AGITATATEC AGCATCCAGO TITCAAGCAG ATGINICCCI AGGCAATGAT GCAGCAGTGC CCCTATCAGG AAGAGGGGGT ATCAACACTT ACATTCCTIT AATCATTCCT GGCTTCCCTT ACCCTACTGC AGCCACCACG GCAGCGGTT TCAGAGGAGG CCATTINAGG GGCAGAGGGC GGACAGTATA TGGTGCAGTC CGAGCGGTAC CTCCAACACC CATCCCCGCC TATCCAGGTG TGGTTTACCA GGGACGGATT TTACGGTTGN TGACCTCTAT ATAGATTCTG CAAACT

SEO ID NO:1304: (Length of Sequence = 211 Nucleotides)

TATTITITING TICTICICC CCIACATATA TICTAAACCT TCIAAAGIIT TITNATITIT TIAAGGATCA CITTATCATA
AAATAAAATA TCCTTTTCAT ATAATAAATT ACCIAATAAA AAGTCTTTT TITTCATATT AGCCCAGGIN CITTGCTACA
TTTATATGGT AATAAACGCC TITATTAAAA TAGANTATTA AATTATAAAG A

SEO ID NO:1305: (Length of Sequence = 316 Nucleotides)

GAAATGATTC AGGGAAAAAA ATTTATAGTA CGITTTCAAC TITTITTITT TITCITTGAA ATGGAGTATG GICATAAAAA GGACACIAAA TAACCIGATT AAGCIAGAGT ATAGACCAAA TIGCCACITA CITTGAATTG TITTITACCAA AGGIATCACT TIGGAATAAAG ATAACITTCA TIAGACATCT ATCITTATGT GITCCIGCCA TCATTTCAGT GAGATCAGAG GAAAGTTAAA TIAGGAACAA TGAAAAAAGCT TAAGAAATGA ACAATCATCA TGCTTTTGTG TATGCTTAAA GTGAGTACAT GTAAAA

SEO ID NO:1306: (Length of Sequence = 310 Nucleotides)

GGGGATTITT GAAGGCTTCG CTGTGGATGG CCGAGAACCT GCTCGGGGTG TAGGTCTGTG TGTCTGGGGG ACAGTTTCCA CATCTGAGCA CACGGACTGG ATTTCTGAAA TGTCAAAGTC TGATGCATCA CTGCCTCGGC GGCTGCTGGC CCTNCTGCCA GCTTTGCTTC CAGCTCGACT TCCTGGTCGG CTGGGAGTCT TCTTGGAATC AGCAAACTGT GTTCGGACTC TCGCAGNTGC AGTTGTTATC AAGCCACTGT CCTCCCCANA GTGGAAGCCT TTCCCTGATA AAAATCCTGG AAGTCGAAGC

SEO ID NO:1307: (Length of Sequence = 302 Nucleotides)

TAATAAATAG TATATGTAGT GAAGAAAAAG TTATAACAAG TATACATTAC ATTTAACACA CCTAGCACAT AGGACACCCT CAACAAACAG CTACAGCTGC TGTAAATCAT GTGTATATAA TATAACATGC AAGCATATCT TCATGTATTG ATTAATTACT ACTTCTTGGA AAAGGATCTG AGGAACATAT TTAATATATT TNATATGCCT GCTCATATGT NCATTTAGTG CTTATCAATT ATATTTTAGTG CTTTTCTATT AGCTTCATCC ATTTGATTAA GATAGCAACT TGTATTATTT AA

SEO ID NO:1308: (Length of Sequence = 285 Nucleotides)

CGCCGGCCAA CGTGGTCTTC CTCTACATGC TCTGCAGGGA TGTTATCTCC TCCGAGGTGG GCTCGGNTCA CGAGCTCCAG GCCGTCCTGC TGACATGCCT GTACCINTCC TACTCCTACA TGGGCAACGA GATCTCCTAC CCGCTCAAGC CCTTCCTGGT GGAGAGCTGC AAGGAGGCCT TTTNGGACCN TTGCCTCTCT GTCATCAACC TCATGAGCTC AAAGATGCTG CAGATAAATG CCGACCCACA CTACTTCACA CAGGTCTTCT CCGACCTGAA GAACG

SEO ID NO:1309: (Length of Sequence = 319 Nucleotides)

TITCCAATTA TIATITIGCC AATATCCICA ACTCITITIGC CCACTITINAT CITCCATTCA ACCCICCTG CAAAATCCTG
ATCIAAAAGC AACCCAAGTA TITGCCTCIT CAACCTCCCA GCTGCTGAGT GGITTIGGGA ATTACACAAC CACTAAGCTT
GGTGCAGATG CACTATGGCC TCAATAGAGT CCCCCAGTGC TGCCCACTTT CTCCTTCCAT ATTTCTCCAC AGCAGCTGGT
CAAAATACAT TINTCCCCAA ATGTCTTACA CAACCCCCTT CTCTCTTATC ATCCTTANCT CACCCCCACC CCAGTTCTT

SEO ID NO:1310: (Length of Sequence = 356 Mucleotides)

TGAAGITTIG CTCTTGTCGC CCAGTCTGGA GGGCAATGTG CGATTTCAGC TCACTGCAAC CTCTGCCTCC CGGGTTCCAG
CGATTCTCCT GCCTCAGTAT CCCAAGTAGC TGGGATAATA GGCACTTGCA ACCATGCCCA GCTAATTTTT GTAGTTTTAG
CAGAGACGGG GTTACACCGT GTTGGTCAGG CTGGCCCTAT ATCCTGCTTC CTATCTCGTG GGTCATCGTG TATCCTGCTTC
ATTTATTTCA ACCTGCAGTT GTTTGCAGAA CATCTG

SEO ID NO:1311: (Length of Sequence = 331 Nucleotides)

AGCTCAGATT CATGICTICA GCCAAACAAG TGAATGIATC TNAGAAGACT CAGIACCACA TGGTACTGGG AGATCITACT CACTICAGCT GGCGITGCTC ATTAGTGAAT GTATGACAGC AGGATGTGAG GGGATGCCCA GGAGTCAGTG TTAGCATTGT CATCIGAGAT CACTGCTATT AATATCATCC ATTAATTTAT TAGTGAGCTT CACTATATGC AGACTGGGAG ATAAGGAGAA AATCTGTCAC ATTCTCTCTA GCTAATCAGA TCAGCTACCA ATTAATGAGA TTCTGAATGA AATATCAATA TGTGTTTTTC TAATTTGGAC C

SEO ID NO:1312: (Length of Sequence = 347 Nucleotides)

TITITITCCIT TATAAATTAC CCAGCITCAG ATTITITINAT AGCAATGCAA AAATGGCCTA ATACACITCA GAACCIGGAA GATTAGCAGT GAGAAATAAA ATCAGITAAG TIGATGACTI CTAGTATTIC ACTACATGGT TGITITGCCA AAATGAAGGC AATATCAGIG TCTTCACACT TAAAAAGTAG TATATTGANC TITGAGGIGA AAGAGCTGGG GITTAAATTI GINCTITACC AATTATTGAG ATAAGIGICC TIGAGCAAGT TACTTGCTTT CNCTGATCIT TAGTTTTCTT ATTIGTGAAA TIGGAAATGG TGGTGTTTCA GAGGGGGGTT GIATATA

SEO ID NO:1313: (Length of Sequence = 336 Nucleotides)

GAATTCCTCT ATCAAAGTGT TCATAAAACC TGGAGCTGCA GCTGGCCCCC ATTAGGTAGT TTCTTGGTGA ACGTTTTCCA
AGGAAAACTT TTTTTTAACA ACTTCATAAA GCCAAGCACA AAAGGACATT GCAATGACTG GCTGAAAGAC ATGGGACTTT
TTGTCTTCGA CGACTAAAAC GTTAAATGGG GGCTTACTTT GTGCATTTAT GGAAGAAAAC TTGGAAGGCA TTAAAGGCTA
CATTTTGAGC CTTGCATGAT TTCATTCATT TATGCATGAA TTCATTTGTT CAACATTTAT TTAGTACCCA CTATATGCCA
GGCACTGTGC CAAATG

SEO ID NO:1314: (Length of Sequence = 391 Nucleotides)

COGNITIAGA COTOAGTOGG CGOTGEAGG GOACTGTOCG COCAGCIGOT CGGCTGGCTG AGCTAGGTCA GTGGAGAGAA
GCTGGGGCCA CTCACACAGC ACAGCAGGCC ACAGTCTACA GAGTACGCCA GGTAGAGCGG TTAGAGTGGC AGCCGCTGGA
GAAAGGGTTA TAGAAACACA TCCCTGACTC TTTGGTTATG TCCCACGTCC TCTGTGTCTC CTTCCCCTTC CCTACTCTCC
TTCCTTTCTG CCTCCTTGTC TCCCTTGGAA GTCCCTGTTG TCAGTGCATT TNAGTGCATT GACGTGTCCT AAACACTGAT
CTNCACACAC CTTC TTAT CTTCCACCTG ATAGGCAGGC CCCAGANCCC CTTTTTTCCT AGCTTTGTTC T

SEO ID NO:1315: (Length of Sequence = 374 Nucleotides)

GAATTCCCTG GAACACTGGT GTTTACAGAG AGAGATACTT TGTGGGAATGG AGCTTACATG ATGAATGAAA AAGAGACCGT
TAAAAAAGTAC TAGCCGTTGT TTACAAATAA CTACCAGGTA AACAAAGAAA TCACTTTCTT TCCCCTTTCT AAGGATAAGG
GAGAATAAAA TAATCACCAA GAGGCATGGA GTTTGAAAAG TATATAAACAG ATTTCTTTAT TATTATTTAC AATCAAGTTC
TGTTGGNCAA CATAATGAAA TAAATAAAAG ATGTGCCCTG GCCTGTGAAT TTCAACTCTC CTTGACTTAA GTTCTCTGAA
GGGCAAAATTG GAAAGCGGTG ATCAGGCAGG GAAGAGAGGG CCAG

SEO ID NO:1316: (Length of Sequence = 353 Nucleotides)

CTTGTTTACA GGTTTTGAAA GGTTTGINAG ATTAGTATIT ACTTTTAATT TTTTGAGTAA TAGAATGCGT TTAGGTTCTA
AATTACTATG GAAATGCCAT AGTGAGGATT CTNCACAGAT ATTAGAGGACC TTCAACAACA TAGTGAAAAT AGATTTGTCC
TTTCTTGTAA ATAGCTGAAC TATGAAAAATT TGANCTGTCA CTGGAGGGGG CATTTGCNCT GAAGTATAAAA
TAACTTTNCT CTTTAGTAAG AAAAAGCTAT ATTTTNCAAT ACTGCCTGCC ACAGCAAACAA AACAAAGTCT TGTTTGTTT
TTAATATTGG CAAAGGAAAA ATTCTCTATA TAA

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SEO ID NO:1317: (Length of Sequence = 316 Nucleotides)

GAATTCCGAT TATAAGCATC AATATGCATA AAATGCTTAG AGATGGACCT GATATATAGC AAACACTCAG TAAATGTTAA CTATTATTAT NACAGCACAG CAATTTATTT AAGATTACTG AGTGTTCAAA TGAAAAAAAA GACATATTAA CTTATATAGT GCCATTTCTG ACATAAGAAA TACACAAATA GAGGTAGTTT CTGAAACAAA GATCAAAAAA ATCTATTGTA TGGTGTCTTG TATCAATGTG GCTAAAATTT TCGAGCTAAG TTTTATNAAA GACAGATCAT ATTTCANGTA GGTGATTTTT GTATTG

SEO ID NO:1318: (Length of Sequence = 300 Nucleotides)

GROGGACTAC AGGIGCACGC TATCATACCC AACTAATTIT TGTATTITIA GTAGACATGT GTTTCCCCAT CTTGGCAGGG CTGGTCTGAA ACTCCTGACC TGAGGTGATC CACCTGCCTT GGCCTCGCAA AGTGCTGGGA TTACAGGTGT GAGCCAACAA GCCTGGCCCA TTTATTTACT TTTTAATTIT CATTTTTCTT CATCATGTAG AATGGACAAT TTCAGGAAAC TGATAGAAAA TACTGTCTAA CATCAAATTIT TCAAAAAAGT TTCTCTGTAA CAGATAAGGC AGTCAATTTC

SEO ID NO:1319: (Length of Sequence = 306 Nucleotides)

CAATAAGCTT TAAAAAGTTA GTGCCACATG ACCAGCATCG ACTGGCCTCA GACATCTGCA AGCACTCACC CAGGCCACAG GGTCAGGTAG AGGGCTCCTG GGCCCACTGT AGCCCCTGCT GGGTCAGTGT AGCTGGAAGG CTACGGGNCC TTAGTGGGGA GCCACAGCCT TTCCCACTAG GGGGCCTCTC ACTCTGACAT CTCCCTGTGG TGTTCGGACC AAGGGTGGGG AGGGAGACAC GCTGGCCCTA AAGGGAGGTG GTAATNAGTG AAGATCTCCA GGGCCAGNCC ACAGGGCTCC GTCCAT

SEO ID NO:1320: (Length of Sequence = 373 Mucleotides)

GGICITGATC TOCTGACCTC GTGATCCACC CGCCTGGGCC TCCCAAAGTG CTGGGATTAC AGGCGTGAGC ACCGTGCCTG
GCCGAGATAA TTATTTTINA GTGACGATTT AGCAACCTGA AAACCTTGGG TCTTTGGGAT ATGACCTCAG TATCAACACA
GAATATTTGA ATGCTGGTTA ATATATTINT TTTAAACTGT GATAGAATTG AAATCTTGTA GCCACATTTT GAAAGTTTAT
TCTTCATTAA CTAGTCTTTT CTCACCTGAT TTTCTACAAG AGAGAATTTT CCAAAAAGGTT AGTTGTCGTT ACATTAAGAA
CTTGGGGTTT GNTTGACATG AAATGTTTCT ACACCAGCAG GTCTCAGATG AAT

SEO ID NO:1321: (Length of Sequence = 366 Nucleotides)

GITIGGCIAA TCATCCIAIG ATTITCCIAI AGCITGAAAA CITTITATAT CITAAATTII TINATAATTI TGAAGIATTA
TIGITIGGC TITGIATATC CAGIGIATII TCAATTAAAT TCCCCIAACI AAAGIAATTC AAAAGGAATA AAAGIGIAAT
GIGGCCIGGC CGIGGCGCC CATGCCIGTA ATCCCAGCAC TITGGGAGGC CCAGGCGGC AGATCACCIG AGGCCAGGAG
TIGGAGACCA GCCIGGCCAA CATGGIGAAA CCCIGTCTCI ACTAAAANIA CAAAATTAGC CGGGIGGGI GGCACATGCC
TATAAATCCCA GCTATITGGG AGGCTGAGIC AGGGAGAATC TCTIGA

SEO ID NO: 1322: (Length of Sequence = 362 Nucleotides)

AGGGAGGGIA AAACAAATCC CCCTCCAATG CTTTGIAGAA GGGGATTAGA ATCACTGTGG AATTCGGTAT TGGCTAATAA
AGTATAAACG CTAAAGATCA ATGCCTGAGT GCACAGTTGT CCTTCAAGCC ATTGIACTTC TGCTTTCCAA GANTAGANGA
CTACTTTTIA ACCAAGANIT AAAAATAANC TCATAATTTA AACACCTCTT TCATGCCAAA TGGAAATCTT AGTGITGAAT
AATCAGGCTC ACCTGAATAC AAAGTTGTCC TGAAAATCCT GACAATCACA AAAAAGGTTC TAGAAGCTTT TTCAAAAAAC
AAGTTCAGAT GGTTCCCACT GAGTTACTAT TTGAGGTTAA AG

SEO ID NO:1323: (Length of Sequence = 244 Nucleotides)

CGACCTCAGT GTAAATCACA AAACGGGAAG AGCTGATATT GGCAAAATAA TTACATGGCT CATTTCCTTG CATGTCAAAA
TAGGATTTGA TTGGTTGTAA AAGATGACAA ATACCTTTNC GGTTTCAATG TTCTTAAGTG GGAAGTCACT TATTACAGAC
CTNATTGGGA GTAAACAAAG CIGITAGACC TTTCATTATC AGTCCNNTTA ATCCCTTCAA TAATCCCCCT AAATCAGTGA
GGCG

SEO ID NO:1324: (Length of Sequence = 279 Nucleotides)

GATCCATGCC ACAGTGACCT CTGTNACCCT GCACAGCACA GAGGGGAAAG CCCTGTACCA GGTGGCGTAT GAGAATGAGG
TAGGCAACAG CTCTGACTTC TATGACATCG TGGTCATCGC CACCCCCCTG CACCTGGACA ACAGCAGCAG CAACTTAACC
TTTGCAGGCT TCCACCCGCC CATTGATGAC GTGCAGGGCT CTTTCCAGCC CACCGTCGTC TCCTTGGTCC ACGGNTACCT
CAANTCGTCC TAATTCGGTT TCCCAGACCC TAAGCTTTT

SEO ID NO:1325: (Length of Sequence = 338 Nucleotides)

TCAGITATIT GIGIGIGIGI GIGIGIGIGI GIGIGINCAT CIGCAAACCC TGCACITCAT TATCCAAAAA TTATITGATA
TTITATAATC AGAGAAAATG CIATITITAA ACCCTACCAC TGCIGACCAA ACAACAATCA CAACAGCATA ACACTAAATA
CIGITCAACA AATCTATITT AGIGIAGIAA TTAAATAATT CCTAAAATTA TAGACATCCC TAATATTCIT TCCNTTAGIG
GITCCTCAGA GIGCAATCIG TGGAGCAACT ACCTTGAAGA AATTTGGGGG AATGAGACCN TGGGAACCCT AAATGTTTAG
NATGGIGCTC TNGGGGAC

SEO ID NO:1326: (Length of Sequence = 393 Nucleotides)

AACTITIGAG GGGACACCAT CACTCAAACC ATAGCTGTAA ATCTATTCCT TGAGTCCAGA TCACAAATTA CCAAATGAAC
ACGITCTCCA TITTITAGTAC TITTITACCT GTAACCCTCT GTCTACCTAA GATGAATATT TATTCATTGA ATGAATCACTT
TAATTITIGGT GCCCCAAAAT TCTCAGTGAA ACAATTTCTG GATACCTCTC CATCACTAAG ATAATCACTA TAGCAGTGTC
ATATTCTTCA ACTTAGNACA AATCTAAAGG CTCCATTTAT CCCTACTAGA AGTGTTCTGT TGTCTTTTTC ACTCTCAAAA
TATCCTCCAT GCGCNAACCA AACACTAANG GGNACCACCA TATCTTGCTC AATGGAGGCN AAATCACTTT TTA

SEO ID NO:1327: (Length of Sequence = 381 Nucleotides)

CTTTGGAGAA TTAATTCAGC AGTTGGTAAA ATCATTCTAT AATAATGGGT ACCATTCTGC TCTGTCCCAC ATTTTTATGA
AGTCTCTTTA AATTTAAAAA GGCAATGTGC TTTGTGGTTC TTGAGCAACT TAAATACGTT GCTCTGAATA GTTATTGTGA
TGAGGTAATT TGTAACAACT TTTAGGATCA ATGCTAATTT NCTTAAATGT TTCTGTAGTT TCCCCTTTAT TATAAAGTAT
ATTAGGCTGG ACTCTTGGCT GTAAGTGGCA GAAAACTCAA CTCAGATTAG TTAAGAAACA AAAGGGTGTT GGTGACAGTG
GTGGCTTTCA GACTATTGCT GCAGGCCCAC CTGCCATCCT CTTACACCCT CAACATACCC T

SEO ID NO:1328: (Length of Sequence = 289 Nucleotides)

AGAAGAAAAT TCTTAAGCAG AGTACTTAAG TACAAAATTG AGTGACTGAA AGATGCTTAA TCTAGGGAAA TTAAATGAGA AAAATACATG GTGTGTGTNT TGGAGGGGGA GCTGGAATTG GAATGGGCTG GAGTGATGAA AAAAAGCCAA CAGATATAGT CTTCTGTTTT GTAATATAGG CTCAATACTA AATTATGTAG GACTAGATAA TCTAGGTCCT AATGTCTCCT TTTTGCTGGC AACCTGGGGG CCAATTACAC TAGAGGGTTG GTAGAAAAAA GAGGAATAT

SEO ID NO:1329: (Length of Sequence = 364 Nucleotides)

TTGTATATTT GGGATTIFICA ATAATCTAGG CCACGTGGAA GATAACAGG TATTTTGGAT ATTINCTAAT TGCATTOTTT ATATTTCTGT GTAAATGCCT ATACAAATGT TTGCTTGGTG ACATATGGAA AACTTAAGGN CTTTTATGAA AAGGCGACAA TGGGGACCTC CAAAGCGCCA AAGTTTCTGC TAGGCATAGT GTTATTTTTA GATTACATTA AAATGGCTAT TTAGACCCAT CTAGCTGAGA CTATTCCAAA ACAAACTTT TATCANATTG TNATCATAAT CAACTTTCTA CAGGCTAATG ACTITATAGN
TTTACTNCTA GTGTATATCT ACTAGCACAA TTGGACCCAG TTCC

SEO ID NO:1330: (Length of Sequence = 221 Nucleotides)

CAATATTTAA ACAAAATGCA AAACTGAACG TTACCTCAAA ATGAAACAGT GTGTGTACTG GCTGTTAGAA GTTGATGGCG GTCTACTGTT TGATATTCAC TGCCATCTTC CTCTGCCCCA CTCTACCTCA ACTCGGGACC GCCTCACCTA ATGGTGGGCT TTGCCGCTTT ATGCCNTGTA GAGNAGACAC TGGGTAACCA CAGCAAATCA ACACGGGNTC C

SEO ID NO:1331: (Length of Sequence = 279 Nucleotides)

AATAGAGATA ATGGTCAACT CTTGAGAAGA ACCAAATGCT GGTGCCATCT TGGAAGTGCT ACATCACCTC CTCCTCTTAC
TTCCTTGAAC AGCAATATTT CTGGATTTCT TCTGCAAGCC CCAGGCAGTG CAGGATGCGT TINITTTCAG CAGCCAGTTC
CTTCTCAGAG AACTGGCCCA AGAGTTTCTG GACAAATATA TTTTGATCTT TCAGAAATAT GTTCINATTC ACTCCTACAT
TTGGCACATT MTCCAAGGGC CCAGACTTGA AATTGGAGG

SEQ ID NO:1332: (Length of Sequence = 290 Nucleotides)

GEACEAGEAG ATGICTITGG TGGACTIGGG AAAGAGGTIG CTAGAAGCAG CAAGAAAAGG CCAAGATGAT GAAGTGAGAA CGITGATGGC AAATGGCGCC CCATTCACCA CAGACTGGCT TGGAACATCA CCCCTCCACC TTGCAGCTCA ATATGGTCAT TATTCCACAG CAGAAGTACT CCTTCGAGCA GGTGTTAGCA GGGATGCCCG GACTAAAGTA GACAGGACCC CCTTGCACAT GGCTGCAGCC GATGGACATG CGCACATCGT GGGAACTGCT TNTTCGGAAT

SEO ID NO:1333: (Length of Sequence = 201 Nucleotides)

CGCCCAGCIA ATTITIGIAT TITNAGIAGA GACGGGGITT CATCATTINA GICAGGCTGG TCTCAGACIG CTGACCICAT
GATCCACACG CCITGGCCTC CCAAAGIACT GGGATTACAG GCATGAACCA CCACGCCCAT CTGATTICCC GITTICIGCA
GGGTAAAGNC TCAGGGCCGG CCCATTGNIT TCAGGANITI T

SEO ID NO:1334: (Length of Sequence = 267 Nucleotides)

NNATAACTT TIGTIGAAAT TIAGAAAAIG TGGATCITIT ATACTIGCIT TCCCTTTICI TCIGCCATCI TIATCITCIG CIGAAGGAGA CAAACAATAT TITAGGIGAC ATCIATCACI TIATGIAGGA CCIGCAAACA CICATGITGI CITCGGACAG ACAAATGGAG AATGIAAAATC TGITACACIG TGACAGGATA TAATINIGGA TIGCATAGGN TINCAACAAA GIGTCIGIGI GATGANIAAA TGGIAAAATA TATTIAT

SEO ID NO:1335: (Length of Sequence = 279 Nucleotides)

GENTOTTGIT AGAATGCAGA TTOTAATTAA AAATGTGTAG GACAGGGCCT GAGACTOGGT ATTTOTAACA AGTTCCCAAG
TGATACTAAT GCTACTGCTT CACAGATCAC ACTTTAAATA GTAAGGTTCT TGAGAGAGAT TAGTCTCAAG AGAAAAGAGA
CAAAAATCTC CAGAGCAGGA AGACCAAGAA AAAAAAATGG AAAGTAGCCA GTCGATTATC AACTAGATGG CCTTAGTGAG
ATTCTGCACA ATATTTCATC ATACAAAACT GNITTCCCA

SEO ID NO:1336: (Length of Sequence = 398 Nucleotides)

TTITITIAGE ACTUTIGIGI GGACTGGICA AAGATGITCE TAAAACAACA TIGUTGICAE CAAGCCTCCE ATGANTIAGG CAEGATACTE COATGIGGAE AUCTGCTTC! GCATAGITYS, TGAAGAGGAA GCATCCTCAG TCAAGCCACCE CAAGCAACAT ACCUTTAGGA AACCCCGCTG GTACCTGGCC TGINITITGI AAGTATACAT CAGGCCAGGG GGCTGCTTGC CAAGCAACAT CATTGACTGC ATACTGTTTA GTGCATGCAT TACCAGGGCT CAAACATCCA AGTGATGCTA CCTGAATAAG TCGAGGAATT TTIGATAATA AACATAAGCC AAATCCAAAA AAATGITCIG GGTTTTTCCA TCATTACGTC CAGGAAAA

SEO ID NO:1337: (Length of Sequence = 272 Nucleotides)

CITTCCTCAG TATCACAGGT ACCIGITTIN CIGGAATITA TITAAAATGI CACCITGIAG TGITCCCTCT CTAGGGCTGT
TTGITTCATT TCCCTCTGAA TGAATGCTGC CACACGGICA TATGTGAGCC AAGITTACAA GAATGGAGTT GCTGCTGAAG
AGATCTCTCA TTCATCTCCC CCAGTGCCTG TCCTTCACAA TCATAACGIT ACCCTTGCTT GACAAATATA CTGTATGGCA
AGTCATAAAG GTCTTNGAAC AGGACTTGAC CC

SEO ID NO:1338: (Length of Sequence = 212 Nucleotides)

TAGTCCCCTT TATATAATAT AATCAAGITC CICCATCIGG GCATICAGIT AAATICTACA ACATIGCCAA AATCIGATIT GACTCIACAG AATATGTATA GITTATTTAA CCAGATAGTA ATTTAAAATT TTACAACATG CGIATTTCAT GTAATATTAA TAACAGTAAT TTAAATTAAT ATTCAATACA TACCGTTTGA ATTTTTATAA GG

SEO ID NO:1339: (Length of Sequence = 280 Nucleotides)

TTTTTAGGAA TAACAAATGT TTATTCAGAA ATGGATAAGT AATACATAAT CACTCTTCAT CTCTTAATGC CCCTTCCTCT CCTTCTGCAC AGGAGACACA GATGGGTAAC ATAGAGGCAT GGGAAGTGGA GGAGGACACA GGACTAGCCC ACCACCTTCT CCTCCCGGTC TCCCAAGATG ACTGCTTATA GAGTGGNGGA GGCAAACAGG TCCCCTCAAT GTACCAGNTG GTCACCTATA GCACCAGCTC CAGATGGCCA CGTGGCTGCA GCTGTACTCA

SEO ID NO:1340: (Length of Sequence = 324 Nucleotides)

CIGITICCACC TCAGATCATC AGGCATTAGA TICTCATAAG GAGTGTGCAA CCTAGATCCC TCCCATGTGC TGTTCATAGC AGGATTTGCA CTCCTATAAG AATCTAATGC CACTGCAGAT CTGGCAGGAG GCGGAGCTGA TGGTGGGAAG GTGGTATTGC TCGC. SCTC GCCTACTGCT CACCTCCTGC TGTGGGGTCC AGTTCCCACC ACAGACCACT GGTCTNTGAC TCAGGGACCACT CTAC SCTC AACANGGNTG AGGAAAACAA CTGGGTTCAT CACACAATTA TTTTAAAGTT CAGGTTTTNC AAATAACTTA TCCX

SEO ID NO:1341: (Length of Sequence = 376 Nucleotides)

CTAATCAAGG GTACAAGATG TCTAANTCAA AGGCCCAGCT CTGCCTACAA GTCAAATATC TAGGCCTAAT CTTGGCCAGA
GGAACCAGGG CCCTCAGCAA GGAATGANTA CAGCCTATAC TGGCTTATCC TCGCCCTAAG ACATTAAAAC AGTTGTGGGG
GTTCCTTGGA ATCACTGGCT TTTGCCGACT ATGGNTCCCC AGATACAGCG AGATACACTC TAAGGAGACC CAGAGGGCAA
ATACTCATCT AGTAGAATGG AGACCCAGAG GGCAAATACT CATCTAGTAG AATGGGGACC AGAGGCAGAA ACAGCCTTTC
AAAACCTTTA AAGCAGGCCC TTCTTNCAAG CTCCAGCCTT TAAGCCTTNC CACAGG

SEO ID NO:1342: (Length of Sequence = 335 Nucleotides)

ACCOTTCCCC ACTCCTGGT CCCCGGGAGC AGCTCCTTCT GCCCGANINA CTCACAGTGC AGGGAAAGGA GGCAGGGAAA
AGACCAGGAT TCTGTGAGTT CTGAGGTTGC CACACACAAA GAAGCTGTGG TTTCTCTGCC TCGGCCACTG ATGAGACTAA
AACTGGCTTC CCCTTGGAGA CGCCAGATTT CAGGCTGATC CCTGCTTAAG CCCTCTCATC CCCACGCTGG TCCTGGTATT
GATACAAGAC CCAGCTGTG ACAAAGCCTC CAATCCTGGG GGTCCACGGA GCCTGGGGGT GANATTTCCA GGAACTATAC
GCCAGTGGGC GCCCA

SEO ID NO:1343: (Length of Sequence = 379 Nucleotides)

GAACCCAGGA GGCGGAGGIT GTAGTGAGCC AAGATCGTGC CATTGCACTC CAGCCTCGGC AACAAGAGCG AAACTCCATC
TTAAGAAAAA AAGAAGGGTG TGATAGTTAA ATTTATGCAT CAACTTGGCT AGGCAATGGT GTCCAGATAG TTGGTCAAAC
ATTATTCTAG ATGTTTCTGT GGAGGITATT TTTTAGATGA GATTAGCCTT GTAAACTGGT GAAAATTGGG TGAAGGAGAT
TACCCTGCAT AGTGTGGTGG GTCTCATTTA ATCAGCTGGA GGCCTCAATA GGGAAAAAGA CTCACCCTNC CCTGGAGCAA
GAAGGAAATT CTTGCCCAGC AGAACTTCTT NGGGCAGCAG AATGCAACCA TAAACTCTT

SEO ID NO:1344: (Length of Sequence = 400 Nucleotides)

GACGGATGGG ATCGGGGCTG TGCTCTGCAG GTCCTCCCCA GAGATGTTGT CATACTGCGA GGGATGCCGC TCGTAGGACA
CCCTGCAGCC AGAGCCGTCC GCCGTCTGGN AGGCTGCGCT CCTGCGCTTC TTCTCGGGGA GAGCAGGTGG CGTATCININ
TGCTGCCCTG GGGCCAGAGG TCCGINTGGC TGGGGATGGC CGCCAAGAGG CAGCTGGAAA GGAGGGCCCAA GAAATGGAGA
CCCAGACTCC CCCAAAGACT CTGGCAACGG GCTAAGGTTC CAGGGCCGTC TGCTGAGGTA TCTGGTCTGC GTTAGAGAGG
TCTINCTGGA GGAATTCATA GTCGGGATCA TAGCAGATCT TGTCCCCTTT CTATACCATC TGTCCTATTT GGAGATNGCT

SEO ID NO:1345: (Length of Sequence = 347 Nucleotides)

SEQ ID NO:1346: (Length of Sequence = 287 Nucleotides)

CAAGTCAATA CCCATAATTA AGTCAAGTTG CCAGCCTTAA TTATATTINT NICICGCTCG TTCACTCTCT CTCTCCTTCC CTCCTTCCCT CTCTGCCCCA CCCCCGTGTA CATTATATAC CAATTCATTG GAGATATATA TATGINIGIN INTENGINIG TGTGTGTNNC TGTGTGTGTA AGAAGCAGGA TGTCTTACAC AGATGTTTCA TATATTGAGG NATTACAGAG TAATTACAGG GAAAGGTATT ACACTGTTCT TCAACACCCT AGGCAGT

SEO ID NO:1347: (Length of Sequence = 295 Nucleotides)

ATTARACAAC TITTITARAC TITTITGIGCA CAGGACAGAA AACTGCCTGT ACATGCTATG TCCACTITIG GAACACAGAT
TITTAACAAT TATGAATGCA CAAAATCITA CATATCATGC AACTCTATGC CAAGAACCCA ACTTTCTTCC ATGCAACAGA
TATGAAGATC TAAATGGAAA CCTAGCTAAG TCTTAAACAC TITTCCAGTA GCAAGTATAA TATATGTTGT TGAGGGAAAA
CCAGTCTTAA CAATTNCTTG TACACAATAT TCATGTGCCA AATACAATCN CAGGN

SEO ID NO:1348: (Length of Sequence = 332 Nucleotides)

AGTCCCTGCT ATGTGGATAT TTGGTAGCAA TGACTGATGT GGAAACTACA TATGCAGATT TTATTGCTTC AGGAAGAACA
GGTAGAAGAA ATGCAATACA TGATATCCTG GTTTCCTCTG CAAGTGGCAA CAGCAATGAA TTAGCCTTGA AATTAGCAGG
TCTTGATATC AACAAGACAG AAGGTGAAGA AGATGCACAA CGAANTTCTA CAGAACAAAG TGGRGGAAGA CCAGGGAGAA
GCAGCAAAAAT CTGAAAGCTT AACACCCCAC TTTGACCCTC GGCCACACCT GAAAATGTCT CAAATCTCCA GGGRGTATCT
GGGAAATGCAT TT

SEO ID NO:1349: (Length of Sequence = 295 Miclestides)

GCCCCAAAAA CAATGACACA AAATTCATTT GGTTAATTCA TGTAAAGGAA AAAACAGCAA CACCACCACA CAAACAGGAA AGGGGGGAGTA TGATTAGGAG GGGTGAGATG AAAACTATTT TACAGTAACA TTTCCACCAA AAGACTGTCC TAAGAACACG

CTGTCAATAC AGTTCACAGG GAAAAAGCAA ATGTGGTATT TTTTTGTATT TTTTAAAAGC TCCCTGGGTC CCAGGTGTTT TGCAGTTTTC AAGGNCTTAT CTGCTAAAGG AATGCCCTTT TAGGGTCACA GCAGGT

SEO ID NO:1350: (Length of Sequence = 317 Nucleotides)

CTGTTGCCCA GGCTAGAATG CAATGNCGTG ATCTTGGCTC TCACTGCAAC CTCCACCTCC CAGGITCAAG TGATTCTCCT
GCCTCANICT CCCTAGTAGC TGGGATTACA GGTGTTCACC ACCACGCCAG GCTAATTTTT GTATTTTTAG TAGAGAAGGG
GTTTCACCAT GTTGGCCAAC CTCGAACTCC CAACCTCAGG TGATCCACCT GCCTCAGCCT CCCAAAGTGC TGGGATTACA
GGCATGAGCC ACTGTGCCTG GGCCAATAAA CTATATTTTN TCAAGCCAAA GTAGGACAAG CACAGTTTTT AAAAGGG

SEO ID NO:1351: (Length of Sequence = 349 Nucleotides)

CGGATGGGTG GGATGAGACT TCAGCTTTAT TGGAAATGTT TTATTTCCTT ATCTAAAAAA ATACTAGAAA GAAATACAAC AAAATGTTAA CAGTTGTTAA TGTCGGCCTC TGTAAATATA GATATTGTGT TACTTTAGTC TTTTTTTTAA TCTCAACTAA ATTAAAAAAAG GAATTTTAGT CTTTTTTTTAT CTCAACTAAA TTAAAAAAAGG AATTTTAAAA CCCTAGTGTT ACATGCAAGT GAGTCCAATA ATGGCAAAAT AATAATGAGG NTACATAGGA AGGGTGACCT AAATTTTAAT GGGTGAATAC TGGGTCCCCG GTACAAGTTT GANAAATTTT GAATTTCCG

SEO ID NO:1352: (Length of Sequence = 304 Nucleotides)

TTTTTATACT ATTTAAAAGA ATCCTTAAAT GATGGTATT CTCTAAAGCA TGCGGGGCTT AAAACCTAGA TGATGGATTG
ATAGGTGCAG CAAACCACCG TGGCACATAT ATACCTATGT AACAAACCTG CACATTCAGC ACATGTATCC CAAGACTTAA
AGTAAAAGTA AAAATTAAAA AAGATGGGTA TTCTATATTT ATCTTTCATG TTACATTTTT CTTTGTGGGG TTTCTAAATA
AAACTTGTAA CATGAATGTT TTATTCTCAT TCTGTATTTT AAAAAGAAGC TGAGTAACAA AAGG

SEO ID NO:1353: (Length of Sequence = 307 Nucleotides)

CITAGICIGA CATTAGGITA TGAGAAGIAC AAAAGATCCA CAAGIACAAA AAAATCIGIA TAGCITIGGG GTAGITGAAA
AAAATGCAAG AGAACAAAAA AATTITITGA GIAATATTCA TCTCTGCAGA TCTGAGIGAC AGICCGCTTG AAACACCGCT
GTAAAAGIGG TAAAAAAATGA TTTCATTGIG ATTATGITAA AATTITITGAT GTCTCTINITA CITGITTTAG GGGAATCTGG
TCTTCCTGNC ATTTATACCT GGATANGINC CITTCCCTGT AATTITTNCT GAAAGGCTCC AATTICC

SEO ID NO:1354: (Length of Sequence = 407 Nucleotides)

GTGAAGTTAA GCAGCAAGGG CTGAGAACCG CTGCTCCAGA GAGGCCAGGA GGTCTGGTCA GAGGCTGGGG CCCCAGCCCC CAGGCACCTC TCTGTGTCAG TTTCCCTGGA GAAGTCATGA GTTTGAAGAG TAGGCAGAGG CCAGGTGTCA TCACTGAGTC ACTCATCAAT GGCCAATGAG AGTNCAAAGG GTAGGTCTGA GCACAGGATG TNTAGCAAGA CTCCTGGGTT CAGCTCCCAG TCCCCACCANT GCCAAGTGGG GGATCCTTAG CAAGGTACTT ACCTTTTTNN TGCCTCTGTT TCTACGGCTG CAAAATGGGC ACAATAATGT CAGATTCATG AGGGATAATG AGGACTAAAA TTAGGNTAAT TNCCTATAAG CTGCTTCTAA ACGTATTTAC TTATAAAA

SEO ID NO:1355: (Length of Sequence = 355 Nucleotides)

ATTACTATTIT GCCTCTATAG GAGGITTCAT TAGGCATCIN CITCATTATU AGGGCATATAT MATCAAACAC TIATCAGTAC
AAGGCAGAGA GACCGGGACT AGCTGCCTAC ACATCCTCAA TGAGGTTTAG GAAATTTGAA GGAAACATGU ACTGAAAAAC
TTCTGGTGGC AGGTACTCTC ATGTGTTGTC CTATCTGATG CTCTCAACAA CCTCTAGGGG TAGATATTGT GACCCTCATC

TTGCAGAAGC CTTGGCTCAA GTATATGCTC AGAATCACAG AGCTGGAAGA TAAACTTGGG TCTCTCTAGT GCCAGAGNCC
ATENCCTCTG ATCTCTCAAG GGCAGAGGTA TTACC

SEO ID NO:1356: (Length of Sequence = 406 Nucleotides)

TITITITIAG TIATITCACI CICCIGITA AAITIATCIG ATAGGATICI GCAGAGAACA AAAITCAACA GGGCCCIGIG
GAGCAAGGAG CCCCITITCC CIATCICCII CCTCIAAGAG CIACACCCAG ACCAGCIGGI TATCAGCGGA GGCCCCGCIG
CICCICATGA GAACGCIGGI GGAAGACGAA GGIGATGGCA GIGGAGGCAG CATCCCAGGC AGCCIGGAGI ACCTCATCCC
GGAGCCCCCA CITATCAGIG CAGIGGITCC ACCCIGCCAG GGICINAAGI GCAGICAGAA CCATCAGGGG GINGCCGGAT
CIGACGGCIG TINACACAAC GICGGCAGIG CAAACCTAGG GACAGAAGGC ACANCINAAG TCACINCAGA TCCCATCITC
CIACIG

SEO ID NO:1357: (Length of Sequence = 231 Nucleotides)

TITCACAAAG AAITTATGAT TGCITCACCA GGTCACTAGT GAGCTAAAGT CAAGGAATGA CTACAATCTT GTAGCATTTT
AAAGTGATTA GAATTTGAGA AACTTTTACT ACATTATGTG TTACTATCAT AAGAACACTC CTTTGGGGGC ATTTGAATAA
TAAAAAGGNC TACATTCTTT GCACCANGTG NICATTTTCA CCCACATTCC AGTATTTTNC TCTAACTTGG G

SEO ID NO:1358: (Length of Sequence = 302 Nucleotides)

CACAACTAAT TIGTAAGCCC CTTGAGCGCA GGAACTGGIT TITTAAAGAA TGATGIATTC TICACAGTGC TTICCCITTC
TGTTACCCAG GGAGCACATG GCAATATAAG GGCTCCTGGG ATTGANTCIT AAGTACAGAG AAAACCTAAG AATNCTTTTA
GATAGACACA TAAGAGACCA CNAGAGAAGA GCAGATTCTA AGGTATNTGT GAGAAACGIT ATGTAATGAA AAGATAATTG
ATGACACACA CTTCCAGAGN GTGCTGGCGA GATTTGATTC AAAAGCACAC GGCTAGGGCA CT

SEO ID NO:1359: (Length of Sequence = 356 Nucleotides)

TAATGATGAG CCTCTGGGTG CAGGGAGAGG ATAGGACTTG ATGCTTTCCA GGGGAAATAT TTAAAATTTC AGTACTAAGT
TAAGTCTGTA TCATTTTACT TTTTTTATAG TTTCTTATTT TATGTTGTAT GAGATGAAAA GCTTGCACAT AAAAGATGAT
AAGAAATTAG AATTCATCGT TTCTGTTGTA CCAAGAAGAA CCTTAGTGAT CTCTAAAAGA ATTGTTGTTA AAATATGGAT
TCINCTITCC TTCTAGTACT CCCCTAGCAT GACANTGAGC GTGTGATCCA TTACCAAGTC TCCTCATGAA AACCACAGTG
AGTCAGCCCT TCACAGAACT ACTACGGGAG GAAATT

SEO ID NO:1360: (Length of Sequence = 366 Nucleotides)

SEO ID NO:1361: (Length of Sequence = 347 Nucleotides)

SEO ID NO:1362: (Length of Sequence = 358 Nucleotides)

CCATTCATTC ATTCATTCAA CAATATTCAT TCAACAAATG AAGCAAAGGA GCACACAGCC AAGTGATGGA GCAAAATCAC
AAATTAAAAG GTAATTCAGG CCAGGTGAGG TGGCTCATGC CTGTAATCCC AGCACTTTGG GAGGCCGAGG CAGGTGGACC
AGCTGAGGCC AGGAGTTTNA GACCAGCCTG GCCAACATGA TGCAACCCCG TNINTACTGA AAATACAAAA ACAAACAAAC
AACATAAAAA AATTAGCCAG GTATNGTTTG CAGGCGNCTG TAATTNCAGC TTAGTCAGGA GGCTTTGGCA NGGGCTTCAG
TTAGCCAAGA TCGGACCCTT NCACTTTCAG CCTGGGTA

SEO ID NO:1363: (Length of Sequence = 312 Nucleotides)

TATTIAAATA ACGIGCAATT TCATAAATCA GCACATTIAC TAGATAGGIA GGATACTITI NATCCATTIG TGIGITAAAA
AATTAGCGCA TGITTCTCTT TATGCCCCACT TGIATTAGCA GAATAGIGIT TTCGGATTCC CTGAATGGIT CTGIATTGAG
TCTGIATAGA CCCCGAAGGA AAAGGAGGAA TTCGCCGIGC CCGAGAATAG CTCCGTCCAG CAGTITANGG NAGAAATCTC
TAAACGITTT AAATCACATA CTGACCAACT TGIGTTGATA TTTGCTGGAA AAATTITTGAA AGNTCAAGAT AC

SEO ID NO:1364: (Length of Sequence = 345 Nucleotides)

CTGACAGATT TACAGATGCT GACCTATTGA AAAATACCAC AGCCAGAATG GGCTAAACAG GTATATAGIT AATACAACCA
CCACCATCCT TTACTITTAA CATAGCTCTT AGTAGGAATT TCATAAAANT GGACATCACA GCTAAAATGC ATTATTAATT
CTCCTATCTG CTGACAATAA AAAAGCAGCA AACTCAGTGA TTTCTATTTA AATGCACTAG ATGGGAATAT CATGITCTAG
GGGTGTTTGC CTTCAAACCA AACCCACAGC AACACACACA AGCAATTTCG GTATCCACCA TTTTAAATTC ACAATCTGAG
NCTAAATGAA TGGCTATTTA TATTT

SEO ID NO:1365: (Length of Sequence = 255 Nucleotides)

CTCCAGAAAG CCATTGATCT GGTGACGAAA GCCACAGAGG AGGACAAAGC CAAGANCTAC GAGGAGGCGC TGCGGCTGTA
CCAGCATGCG GTGGAGTACT TCCTCCACGC TATCAAGTAT GAGGCCCACA GCGACAAGGC CAAGGAGAGC ATTCGAGCCA
AGTGCGTGCA GTACCTAGAC CGGGCCGAGA AGCTGAAGGA TTATTTACGA AGCAAAGAGA AACACGGCAA GAAGCCAGTC
AAAGAGAACC AGAGT

SEO ID NO:1366: (Length of Sequence = 322 Nucleotides)

AAAAAAAAA TICCAAAGAA ACAGAGTAAT TITCCTCCIT GCCTCAGCCC TAAGTCATCI CCCAGACAAA AAAGCAATCA
TCATTGTCAA ÄTTTAAAAGG GAAAAGGAAA GACTTTTATT TGANTGAAAA GATTTTTTTC AGTGTGATAG AGAGGGAAGA
CTGAAATAAA CAGAATTTAC AACCTTCGCA CCTTTGCACC TTCCTCTTCT AGCAGTATGG CAAACTAAAT AACTTGCACT
GAAAACGGGT TAAAAAAGCTG TATACTTTTT TAAAAAAATAT ATTINENTTA TGTCATTGAT CTGCACAGTT TTGAATACAA
AA

SEO ID NO:1367: (Length of Sequence = 349 Nucleotides)

GAAAACAAGG TCAACATCAC TCATCATTAG AGAAATGCAA ATCAAAACCA TAGTGAAATA CCATCTCACA CCAGTCAGAA
TGGCTGCTAC TAGAAATAAC ATGCTGGTGA GGCTGCAGAG AGAAAGGAAT GTTTATACAC TGTTAATGGG AGINTAATTA
GTTCAACCAT TGTGGTAGAC AGTGTGAAAA TTCCTCAAAG ACCTAGAGAC AGAAATACCA TTTGACTGAG CAATCTCATT
ACTGGGTATA TAGCCAAAGG AATATAAATT: GTTCACTGT AGAGAAAACA TGCATGCATG TTTGTTTGCA GCACTATTTC
ACAAGAGCAA ACACTGGGA TCAACTTAA

SEQ ID NO:1368: (Length of Sequence = 379 Nucleotides)

CIGGGACAGA GACCITIGCA TIGCICCATG TGITGGCITC AGCIGGGACA GAGACCITIG CATIGCICCA TGIGITGGGG
CAGGICTICC ATTICAATCT CCTCTGCCCT AATTIATTAG CCATACTTGT GCTATTTATT ACTITIAAAC CCTAATCCIT
TITCCGIAAT TIGITTACAT TITGCAGAGT GCCAGCATTT TACAATGIGT CTTTTATGTC TCACAGAGGT CATCATTAAG
TIAGACCITT GGCTTCATGT GICTCCCGAG AGATGGITTA TAAAATTIGC AINCTICTGG CACAGGTGGT GTGGCTTAGG
GATTAGGACA CAGCCTGCCT GAGTTCACAC CTCATCTCTC CCACTTAACA CTGATAATT

SEO ID NO:1369: (Length of Sequence = 319 Nucleotides)

ATTICIGGIC TAAGITITAT TATTICCITT CITCIGCTIG TITTAGGCIG ATATIGCACI TCITACICCA GITTICIAAG GIGGAAGCIT CGACTATIGA TITCAAATCI TITTINCITIN CIAATCIATG CATTCAATGI TATAAGITIC TGIGAAGCAG TGATTICATI GCATCCCACA TITTGATAGG TTATATITCC ATTTAGITAC AAATAATTTA AATTICCCIT GAGATTICTG CITTGACTTA TGIGITATIT GGAAGIGIAT TITTATTCIC CAAATATTTA GAGATTICCA GCIGICITTA TGITATTAA

SEQ ID NO:1370: (Length of Sequence = 343 Nucleotides)

GGAAAACATA AAINITGACA AGTAGTICAA GACIGITGGG ATAAACITAG CIAGAGIGCA GGICATAACI ACCCATCITT
ATAAGGAAGC TGAAAAGGGA AGTATGAGGA CAGGGAGAAC AATGACITIN TCTCTCAAGC TTGACITAAA CCACCAGGAA
AGTICITAAA GCCAAAGCCT TTCTCAGACT CTCACCAAAC CATAAGAGTC AGAAAAATGG TCGITTICAA AGGAGTAGAA
AATTCTGTAC AAAGTAAACA ACAGCTGAAG CAGGAAAGGN ACATACATTT NNICACTTAG TGGCACGCAG GCAAAACAGA
ACATAGGGCC AGCTTGGTTA TTT

SEO ID NO:1371: (Length of Sequence = 295 Nucleotides)

ATTICINCET GGGCGGCGAT GATCTGAGCA ATGCCCCCCA CAAACTTGGT TTTCACTACA ACATCGTCGT CATCAGCTTT
GCCAAAAAGCT GCCTTCTGGG CTGCACGGAC AAGATTGTNT GAGGCTCTTT TCACAGCATT TCCTGCCGCC TGTAGCCGCC
TCATGGCCTC TNAATCCTGG TCGGCCTTCA CCTTGCAGGC CACCAGCAGC TGAGCCGTGG AAGCGGCGAC CTGCTTGGCA
GATGAGATGA GCTTCTCCTC GCTGGCGTGT CCCTGAACGG AGCCATTGGC CGCCT

SEO ID NO:1372: (Length of Sequence = 340 Nucleotides)

TITIGCTITICA GATAATGITT CIGIATACIT TATAAATGCT ATCIGIGGIA TCICCIGIAT AATINACAAT GITIGCATGI
AAAAAACAAA ACCCATAGAC CITAAAAAAA AGAAAAAAAG AAATATACAC TATACATAGG CACAGCITAT GCCCAGAGCA
TAGCAGGTGC ATAAAACACT GITIGCTATAA ATGCAAGAAA AAGGTCATTT AACCACAATC ACATTTITITT NCATAAGAGA
GTCTGAAAATC TATACAATAT ATACATCTAT GITICAATGT GGAAATAATA TICTTTTAAA TITCAAGGCG TGTTATACCC
CTGCAGGCCT GCATAAATGG

SEO ID NO:1373: (Length of Sequence = 315 Nucleotides)

AATCCIGGG GIGATITAGA ACTIAGAGGC ATICICAAAA IGGACCAAGC TAAAIGGIAG CCITIATIIN CIGIAAIGAT
TCACCAIGGG AAAATTAGIA ATICITIAAA CITCITACII AATCITATAT GIATICCAAA ITINCIAAAA AGAAATTAAC
CTAGAGGIIT TACAGAACIC CATITITIIT TIATIINCCA GAAAGGAAAA ATITATCIGI NCIGINATII IGTIAAAAAT
CCIATICCAG CIACIACIAT GGAAAAAGGA AAAGAAGAAA GGAGGAAAGG AAGGAGAGA GGAAAGGAAG GGACG

SEO ID NO:1374: (Length of Sequence = 327 Michotides)

GAGCCAGTGG TGGCCCCCAA CAGCCCAATC TGGTACTCAG TCCAGCCTAT CAGCAGAGAG CAGATGGGAC AAATGCTGAC GCGGATCCTG GTGATAAGAG AAATTCAGGA GGCCATCGCA GTGGCCAATG CAAGCACTAT GCACTGAGAT GCCTTGGCCA AAAGGAAAAT ATAAAAGAAA ATAAAATCTC ACATTGGTGC TTAGCAGGAG AATTTTTAAA GACTTACAAA TCAACAAGCT GTTCAAATAA ATAATGAATG CTGCAGCTGG CTCTTACATG GGGCTTTNAG TGTCCCANTA GTAGCAGATG TCCCAGTTCT ATAAAAT

SEO ID NO:1375: (Length of Sequence = 338 Mucleotides)

TGCATGGAAA CITAATCTAT TCAGGICCCA ACTITCAGGC TTCTCTGCTC TGACAAGTAC TAGAGGCCAA TATGATAGAC
TAGTCTGAGT TGGATGCAAG TTAGCCATTT CCAGGAATGA TACCAGGATA AGTATAATGG TCGTGAATAT AACCGGATTT
TAAGGGAGAA TGATTACACC TGGAAACAAA CTGTCAATAC ACAAGTAACT AGTTGTTAAA GATTTCTAAT TTTGACCAAA
GATTTTACT TTCCTGGTAT AGAAATGGAA ATAAACATTN ACACTTTAGG TTTTGAAAGC AACCACCTCC TAACACGGTT
CTGAGTTGGG GGCCAACA

SEO ID NO:1376: (Length of Sequence = 307 Nucleotides)

CAAGCCTCCC TCAAAAAAAT CCCCAGAGTA ATGAAAATAC AAAGTCTGCT TGTTCAAAAT TATGGTGCGA ATAAAAAAGG AAAGGGAGGA AGTGATGGAG TAAAGTTCAG ATTAAAAATA AACGGAAAGT CACAACAGTC GAAAGGTGGA AAAAAAACCGC AAATGCCCAT GANCTGATGA ATGGATAAAC AAAATTTGGT GTGTGTGTAT ATATGTGTAC AAACTTCCTT TTTATGATGA AATAGTATTT CATTGTGTGT GCACATGTTN CACACACANT TTAAATAGTA TTTCGTCATA AAAAAAG

SEO ID NO:1377: (Length of Sequence = 353 Nucleotides)

TGGAATACAC TTGTGAATAC AGTGTGTAGG ATACATTAAC AGTTTTCTGA GTGGGCTGCT CTTTTTTCCT CAATACTGTA
TATATTTINN TTAAGCTCTT CTTTAAAAGA TAAATATTTT TCATACTTCT CTTAAATCCT CAAGGATTAA CTCTGAGTCA
CCATTTGTGG TATTTTAAAT CCTTTTAAAT AAATCTCTGT ATTTGCAFCT GCATCAAAAC AGTAAAACAT TTCACAGGGT
AGGATCTGAT GACCATTTTA TAATCAACAT TTTTAGGTAC CACAAGAL "ACTTTATGAG CATCCACTGA AATTATGGGC
ATTATGTCAT ATAAATATCC AAAAATCCAT TTT

SEO ID NO:1378: (Length of Sequence = 315 Nucleotides)

GATTIGGCAA ATATITGGGT GAGATTIGAA AATAAATTAC ACCACIGIIG CACAAGITAA TGTGAATCAA GCATCTGITT
ATTICATICA GITTATGCCT TTITTICITT TITTGIGCAG TGCAGITGGG GICACAGACT CTCAATTIGA CAAGACACIT
TAAAAGCAGG AGTAGAAATT AGGCIIGGGT TTTACAACTA TTACAGGAAC TGTCATAACA AACTTCAAGT GGATCAGITT
ATTICIGATT TAACITGGGG ATAAACAGIG TTCAATATIT TCCAAAAGAT TCTCCCCATA TAGAAGTCCC AAAAG

SEO ID NO:1379: (Length of Sequence = 352 Nucleotides)

ACCICADANT TRACTIGIT ATTACCTICC AAGICTICCC TECTCOCCE GCTTCTCTT TCINCITTIT CTCCCCACAA
ATCCTCTCAA AACACATACA AAAAGAGAAA ACTAGAAGCA AGATTGGGTC AAACATGAAG AACACAGAAA GCNTATTAAA
TAGCTAGCTT TAAAGGGCTC TTTTTCAGTT TGAACAAAAG TAAAACGTTC TCAAAAGCAA AAACAGAAAA CAGAGCTTCC
ACCCAGATTG TGCAACTTAA TGAGAGGAGG TTAGTGCTGA TAAACCCATT GTGAAATCTA TTATAAAGTG ACAGGTTTTT
CAAGCAAGGA AATCCAATCC AGTTGGGGGT TG

SEO ID NO:1380: (Length of Sequence = 261 Nucleotides)

AAAAATTAG TCAAGACGTG AATAGATATT NCTGCAAAGA AAACATACAA GTGGTCAATA GGTATATAAA AGGTATTCAA
TATCACTAAT CATCAGGGAA ATGCAAATCA AAACCACAAT GAGTTATCIN CTCATACCTT TNATGATGGC TAATATTAAN
CGAGAGATAA CAAGTGTTTA TGGGGGTGTG GNGAAAAGAG AATGTTCGAA CACTCTTGGT TGAAATATAA GTTGGTAGAA
CCATTATGCA AAACAGTATG A

SEO ID NO:1381: (Length of Sequence = 273 Nucleotides)

GCCACTACAC TCCAGCCTGG GACACAGAGC AAGACTCCCT CCCAAAAAAA AAAAAAAAA TTATTAGAAA GAGGAAGAGA GAGAATGACTAC AGTTGGGTGT TGGGNGTTAG AGACCCAGTA CCCCAGCCTG ACATACCTAC AGAAGCAGTG AATTTACTTA TTTACTGTTA TGAAAAAAAT AGATGCTGCC AGCCGTGCAC AGCAGAAACT ACTATTGANT CATATGGTTT TAGCCTTCAC CTTTAAATAT GTCTAATTAT ATG

SEO ID NO:1382: (Length of Sequence = 296 Nucleotides)

CTCCACAGCT GCCACATAGA ACAAGCAAAT CTGACATCAC AGCTCTTTTA AAAATCTCCC AGAATTCTAC ACTGGAATAA AGATCACCCA GTAAACTCAG CTATGTTGAT TCGTAGGAAT TTCTCCTTGG AGTTAATAAT AATCATTAGA AAAAAAATAC AGGAAGAAAT AACTTCCTCC TATTCTTATT GTGATAAATT GTAACAATAG CAGACATTCG TATATAGATC CTATAAGCGA CAAGAGGGGAA AATAGGATTT GCAANTTAAG CATCTGGAAT AAATATTTTA GGAAAA

SEO ID NO:1383: (Length of Sequence = 293 Nucleotides)

CCAAGGACCG GGCCGTGCGG CTGCTCTGGG ACCGCTTCGT GCGGGGCTGC CGCGCCGACT GGTACGGAGG CAATNACCGC
TCGGTCATCT GCTCTGACCA CTTTNCCCCA GCCTGTTTTN ACGTCTCTTC GGTTATCCAG AAGAACCTGC GCTTCTCCCA
GCGNCTGAGG CTGGTGGCAG GCGCCGTGCC CACCCTGCAN CNGGTGCCCG CCCCGGCACC TAAGAGGGGA GAGGAGGGAG
ACCAAGCAGG NCGCCTGGAC ACGAGAGGAG AGCTTCAGGC AGCCAGGNAT TCT

SEO ID NO:1384: (Length of Sequence = 378 Nucleotides)

GGTGGTTTTG ACATGIAGAA AATAAGATG AAGCTGAAC TAGGGCAGTG GTGTTGGCAA ATAATCAGAT TTCAGGAATA
TCACAAAGTG AGGAGCCCAG GATTCATGAC CATTTTNATG TAGGAATAAG GGAGGAGCCT AGGATGACTC CCCCAAGTTT
CTGGCTCGAG TAACTGGGAT ATCAACAAGT CATTTAGCAA AATAGAGAAA ATAGGAGAAG CAGCAATTTG AGATAGAGAT
AGAGGCCAATA TAAAGANTTA TATATTGACC ATGGTAAATC ACCTAAATTC AGAAAGTTGT AGAAAACTTG GGTCTGGANC
TCAGGAAAGA CACTGGATAT GTAGATTTGG AAAGTTATCA ATCTCAAAGT GATTGCTT

SEO ID NO:1385: (Length of Sequence = 204 Nucleotides)

TCATTCTTGG GIGITTCTCG CAGAGGAGGG NITTGGCAGG GTCATAGGAC AATAGTGGAG GGAAGGTCAG CAGACAAACA AGTGAACAAA GGTCTCTGGT TTTCNTAGGC AGAGGACCCC GAGGCCTTCC GCAGTGTTTG TTTCCCTGGG TACTTNAGAT TAGGGAGTGG TGATGACTCT TAACGAGCAT GCTGCCTTCA AGCA

SEO ID NO:1386: (Length of Sequence = 238 Nucleotides)

CCCCATCATG GGCAGCCAGA GCTCCAAGGC TCCCCGGGGC GACGTGACCG CCGAGGAGGC AGCAGGCGCT TCCCCCGCGA AGGCCAACGG CATGGAGAAT GGCCACGTGA AAAGCAATGG AGACTTATCC CCCAAGGGTG AAGGGGAGTC GCCCCTGTN AACGGAACAN ATGAGGCAGC CGGGGCCACT GGCGATGCCA TCGAGGCCAGC ACCCCCTAGC CAGGGTGCTG AGGCCAAG

SEO ID NO:1387: (Length of Sequence = 295 Nucleotides)

TTTTTTTTT TTTTTTTTT TTTTANTTAG GCAAGAAGAG GTGTGAGTAA TTGAGGAAAA ACTGACAGAT GCTTTTCCTA
ATACCAAAAAT TGAGCTTACA ATTAGGAACT GAGTATGTGT AACAGGNTAC AGGTGACAGT GAAGATAGAA GAACCACGNT
GACCACAGAC TCAATGTGCT CTGTAACATC GCACAGTTTA CCCAGCATGA CTTTCCTTAG GAGGCCCCCT CCTCACGCTA
GAGTAAAAGT CCCAGTTAAG TGAAGCCTAC GAGAAGAACT AGTA LAGAA SCTTI

SEO ID NO:1388: (Length of Sequence = 201 Nucleotides)

GCTAGINATO TOTOAGACAO TIGGIOGETA GAAAAGATOO CGCACCATOO TOCAGGNICO AATGGOOTIG GAGAGAGGGO TGCAGGGCCC ACGGNCATIG CIGACTOTIT AGAACGIGOT GACATGGAGO CAGACCACTO GGCCCTGAGI GCGGCGAGGA CCCINITINI GGATGIGGAG GAGCGCGGC CGGAGCATIG T

SEO ID NO:1389: (Length of Sequence = 399 Nucleotides)

GGIGCCCIGT TATCIGGIAA AAGAGCCACT TATGACCICA GGIGCIACIT AACCIGGGG GCAATIGITT CITAGGCCTA
GCAGATGITT GGGATGACAC TAAAAACICA GIGGIGAGAT GAITCCCITA GCAAGATIGC TGAAGITAGG TITAGACGIG
GGAGGGIGGG TATGIGAGCA AIGGIGCCAA TAGCGGCTCT TIATTIGCCT TGICCICATT ACIGCCATCA GGAAGGIGCT
ACIGGCCICG AGCCAGGGIG TICATAATCI GGCCTIGGGI TAACCAGACA AATAGAACTT CITTICCTAG ACIGITGGCT
TINIGGAGGI TGGCAGCCIC TATCACAGGN TAAAATTICC CAAATCCATT TACCCAGTAT ATTCACTACA ATTITTICC

SEO ID NO:1390: (Length of Sequence = 381 Nucleotides)

GGATTGAGGI GAAGATACAA CAAAGAAAGG AAATTGAACG GAATTATTAA GAGGGICAAG TITGATAGGC AGATAAGACT AGGITATCAGC AAGACATTIC AAACAAAAGG AACATTATGI AATTTTITTAA AAAAATACAT GAAAATAATA TITAANCAAG GAAGGAATAT GATAAAAGAN GGATAGITAG TAAAATTTGG ATAACATAAA GATTATTGAA TCTCCAGTCG TCAAATTTAT CCTAAACTAC TGGGGAGAGG TCTCATGICA GATTTTGATT ATCGAGAAAG AGGGGTCAAG AGTATAACANG AAATTCCTTT TTGTTTTGAA CTTCCAGTGT CCCNCTATTG TGGGCAAATA TCAAATTCAA ACCAAATATA C

SEO ID NO:1391: (Length of Sequence = 327 Nucleotides)

GAAGAAGTCC TICITAAGCA AGGCITACAG ACICCCAGGG AGAACAAAAT CICITTATCT CICIGGGGIT TTAGGACCCT CATCAAGTCA TAGAATTGAA ATAGAGAACA TCAATTGINC AACITTITAA TITTAATAGT TITTGIAGTA CATAAAAAATC ATGITATGAA TTATTTTGTA GITTTAATTA TAACITTTTT AGCACTTTTA CCATATTCTT AAAAATTAAA AATTATGAGT NCTGAGAAAAG CAG.GAAATC ACATATAGGT ATTTGATTAA CITTTATGTG ATCITTTACC TCAAGCTAAT GITTCTTAAA ATCAAGG

SEO ID NO:1392: (Length of Sequence = 223 Nucleotides)

TITITIANTA TITAAAACAA TITIATTCAT GAAAATATGC TGTACAATGC ACTCTACACA GCCTCGACAC GGCACACACG CACACGCACA CICTGACGGC ACGGCCACGG TACACTGCCT ACGATACGCG CCGGGGACGC CGCGCCCACC GCCCGTCCCG GCCGGACACT TATAAATATG GGAGAAGGGC CAGAACTNGC GCGGAGAAAG GGGCGTCGGG GTT

SEO ID NO:1393: (Length of Sequence = 296 Nucleotides)

GAAAGTTTAT TATTTCCCAA TGINCITTAC ATTINCATIT GGAAATATCA TICCIGACAG AAATAGNTAC ATTATACCIT
CGAAAGCAGA AAGATCTTAA TTAATTAAAA CAGTTTACAT TTACCITAGC ATTAGGTCTG GCIGGCTAAT TTCAAAGGAT
TAAAAAATTGC ACCNATTIGG GCCAACTGGG GICCIGAATA ATTATCCNGG GTAAAAGTAT AATATTTCAT ACTTTATACA
TTTTGCTTCA TCACACATIT ACTTTCCACA CAGTGNTCAA CTTCACATTT AAAAAG

SEO ID NO:1394: (Length of Sequence = 281 Nucleotides)

ATCITIGCAT CCCIGGGACG ATTICCAGIT GAGCATGGIG AATAATCITT TIGATAGGCT GITGGATITG AGITGCTAGI
ATTITUTIGG GGCATTITGC ATCIGINITIC ATCAGGGATA GIGGCCINCA GCITICITTT CGIGIGIGIG TGICCCIGIC
TIGATICIGG, ATTICGGIAA TATIGGCCTT GITGAATGAA TITAGAACAA TITAGIATTAG TICINCITTA AATGITTGGI A

SEO ID NO:1395: (Length of Sequence = 323 Mucleotides)

CITITITIAA GATTICAAAC TGGGTTACAC ACTGGAAAAG GCTGGGTTAA GGGCCGAAAT TTAATAAATC TGTACTGATA
ACTAAAGGCT ACAGAGATT CATATATTT TITTAACTTT TAGAAATCAG AGTGCTTATA AAATGGCTGG CTCATGGCTC
TGTCACCCAG CATCTCTGAC GCCGCCTCCT AGCCTTCGTT GGTGAGATAA CCNGGNATAG TGATTCCATG CGTAAACAAC
AAGAATACTA AACCAATAAA ACTAGCTTAT CATGCAAATA TTANGGCATC TAGAAAGTCA GTTAAAATAA TATTGTCATA
GAG

SEO ID NO:1396: (Length of Sequence = 384 Nucleotides)

TGCCTCCCGG GITCATGCGA TTCTNCCGCC TCAGTCTCTT GAGTAGCTGG GATTACAGGC ATGCACCACC ATGCCTAATT
TTTGTACTGA TGCCAGCACT TTCTTAGCAA CCCCAGCTGG TGTCCTAGTA TGCCCCCTCC AGTCCACTGT CTCTGGGCCC
AGTTCAGCGC TAGGACTTGC TTAAGAGTTT CAGTCCTTGT AGCCTATACT GCCTTTNACG TTTATTTAGA GATCTAGAGC
ACTTTAACCC TCAGTGGCAA GGTTTGTGGG AACTTGAGTT CGGACCACTG GGATTGGCAA ATTCCCCTCT GGGCTAGGGT
TGCTTTAAACT GCTCCCTTCA CGTGTGGGCA ATCAGCTGAG TTTTGGTCCAG TTTTCCTTTC TGCT

SEO ID NO:1397: (Length of Sequence = 370 Nucleotides)

TIGAGITINI TCAGIGGCAT CCCCIGCICC CCIGAGCACA CACAGIGITI TCIATITATG ACTGIAGIGC CAAGCAGAAT
TTCCATGINC TIGCTAGCIG CCCATTCTCA CCCCICAGGG TCICATACTI CICCCIGGAA GCCTCCCAAG CAGICAATGI
GACAGGGACC AAGIATGIAC AAGGCAACAT ATIGGGITCA AGIGCAAACT AAGGGAACCA GGGCCIGITI TICIAGITIG
GAAGITITIC TITATCCIAA GAAAAGAGAC AGACCAAAAC CAAGAAGATC AACAATAACT CITCICTITIG TCATCACGGI
GATGACATCA AGGTACTGAT ATTAACCAGA AGITACAACA AGAAGGAATT

SEO ID NO:1398: (Length of Sequence = 307 Nucleotides)

ATCAGCATTA GGITTICACC AAAGTGATAC AAGTCTGAAG GTCTTCATCA GCAGTCTCCC TCATAGTCAG CGCCATACCG
AAGAGGCCTG TCCCTCTCAT AGGGCCTTCC AGCCACTNCT TCCCCCACAGG CCTGATTCTN CTGTGGCTGG GAGTGTGGAC
TGATTTGTTA TGATGTGAGA GATCCCNNGG GGTGTGAGCT ACCGCACCTG GCTGAACTTT CAAGGAGAAG TTTGTGCATC
ANTITTCAAA AAATTATGAT ATCAAAAGAT AGCTGTGCCC TACATTTGGG AAAGATACAA AAACTTG

SEO ID NO:1399: (Length of Sequence = 380 Nucleotides)

CTGAATTATT GAGGATGAAT TGATAAAGAC AGGTGTAATG AACTGAGGCC GGGCATTAGA CTGAGCAGCT GACTGTCCCT CAGAAACCAT AACCTTGCTA CCCGCATTGG GCATTGTGAC AACTGTTGAC ATCAATGCAG ACTGCAAGIN AGTTGGCAAA GCTGCTGATG TGTTAGCTGA AGTTGTGATG GGATTGGAAG TGACAAATAC AGTTATTTGA TTTGGGGGCA AGGGAGTNGA AATGGAGGAA GAGCTAACAG GTCTTGACAT TACTGGAGGG ATGCTTGGTG CAACGTTAGA ACTGACCTCA CTCAATTCGG GGATGCACAA GGGATGAACA CAGCTCATTT CCTGTNAGGT AAGTTTAGGG AATTAGAAGG

SEO ID NO:1400: (Length of Sequence = 232 Nucleotides)

ATTATAGATA CACACCACCA CACCOGGCTC CTCACATTAA AGTGGGNITA TGACCATGAA CACTTOGTAT TAATAAATGT CTCAGCACAC CCAAGCCTGA AAATCTGATC TAAACCTCCT TAACTTGAAT TOCATCCACA ATCCACAACT TNCTCGGNAA AAATNINTCC CAGCTTCTCC TTCCTCTAGC CCAAGAAACA GCCTTAACAG CGNGCGATTT CATTCCTACA CT

SEO ID NO. 1401. (Length of Sequence = 349 Micleotides)

AAGCTAAATT TATAATGAAC AGATTGAAGA AAAATAAAGA GCTACAGAAA GTTCAGGATA TCAAAGAAGT CAAGCAAAAC ATCCATCTTA TCCGAGCCCC TCTTGCAGGC AAAGGGAAAC AGTTGGAAGA GAAAATGGTA CAGCAGTTAC AAGAGGATGT

GGACATGGAA GATGCTCCTT AAAAATCTCT GTAACCATTT CITTTATGTA CATTIGAAAA TGCCCNITGG NTACITGGAA CTGCTAAATT ATTTTATTTT TTACATAAGG TCACTTAAAT GTAAAGGGGT TAAAAGACAT CITTNCINGC ATTGCCATCT TAATATC AGATATTACG GGATGTTAG

SEO ID NO:1402: (Length of Sequence = 338 Nucleotides)

GTAATTGCTA TTTGATGTTA TTTTAAGAAA TTAACCCTTA AAACTTTAAT TCCTTAAAAC AATCTCAAAC AGAAGAAGCA
AAAGCTTGTN CTGTGCTCCA GGAAATAAGA TTCAGCACCA ATGAAAATAA ATTATAGAAA ATCAGAAGAT GGGTCAATAT
GAGTGGAAAA AACCTAACAT TTTAATTGTT TTINCTCTCA ATAATTGTGT TGAACCATCC AAAAAAGTAT GATACAAAAA
TAGCACTATA CTAAGAGCCA GATGACATGT CCTTAAAGCC TTAGCTCTGC AAATTATTGG TTGTGTAACA CTAGGGAACA
ACACTTAGNC TCTCCTAG

SEO ID NO:1403: (Length of Sequence = 381 Nucleotides)

GGAGICTCAC TITIGITGCCC AGGCTAGAGI GCGANGGCGI GATCTINGCI CACCACAACC TCCATCICCI GGGITCAAGC
GATTCICCIG CCTCAGCCIC CTGAGCAGGI GGGGITACAG GIGCCCGCCA CCGCACCCAG CCAACITINI GITCICAGCA
GAGAC:GGGC TICGCCATGI TGGICAGGCI GGICICGAAC TGACCTCAAG TGATTTGCCC ACCITGGCCA CCCAAAGIGC
TGGGATTATA GGCGIGAGCA CTINCACCIG GCCICTAAGC TTAATCATTI CTAGGCTTIT NATITAAAGI GAGAAACATG
TGACICITIC CITICATTIG GGACACITTA AAAGGGGITA TTAAATIGAC CCTAATTACA A

SEO ID NO:1404: (Length of Sequence = 325 Nucleotides)

AGCCAAAAGA TIGGATACCC CIGACAGGAT TCCAGGATIC TITIGIAAT: NCICAGAGGC CCICIGIGCA TACICCGIAA GGACTATCCA CATICITTAT TACITICATT GGCAATAGGT ATAAAAATITT ATTIGITGGN TATITIACTG NAATGITACT TGTTTTTGCT TATITACTGA TIGGGIGGGA GGAAGTCAAA GGATGAATAA ATCTAACCNT TITITAAAAAG GAAAGGCTAA AAATA

SEQ ID NO:1405: (Length of Sequence = 349 Nucleotides)

GGATTATGAC TGAACGTCCT CAGCATGTTG GCCTTCACCC CTGGCGGTGG CTCGAACACA AAGATGCGGC CCGCACGGAG CAGATTCACA GGCACCTTGG GGTTGATCTC CATGGTTAGG AAGAGTCGGA AGCAGGCATG CGGCTGCAGG GAATGCAACT TCTTCTCCAG CTGCATCAGC CACCCTGGGG CCAGATGCAC ATTCTTCAGC ATCACCCACC TGCCCGANTT TACAAGCGGT GTTTTATTGC CTTATCTGCT TNGTTAAAGC CTTCTTCAGA GCCGATTGCA ATTGAAGGGA TCTTCGGGGT TCTNCTCGGC TNCAAAGGTC CTCGACAATG TTCCCCTTG

SEQ ID NO:1406: (Length of Sequence = 392 Nucleotides)

GGACTGCCCG TITGITTATG AGACAGGGTC TCATTCTGTC ACTCAGGCTG GAGTGCAGTG TCATGATCAT GGCTCACTGC
AGCCTCGACC TCTCAGGCTC AAGTGATCCT TGCATCTCAA CCTCACGAGT AGCTACGACT ACAGGTATGC CCCACTATGC
CTGGATAATT GINCCITTIT TTTTTTTGGT AGAAACAGGG TCTCATTCTG TTGCCCAGGC TAGTCTCAAA CTGCTGGACT
CAAGTGATCC TTCCAACTCG GCCTCCCAAA GTGCTGGGAT TACAGATGTG AGTCACAATG NCCAGCATGG ATTGTCCTTT
TCAGACCCAG ACCAAAGAAC AGGACTTATT TGTCCCAAGA CCAATCTAGG NAAAGTATAA GCTGTGTTGT CA

SEQ ID NO:1407: (Length of Sequence = 362 Nucleotides)

GTTAATTGGG NTTCACAAGC AATAATTTCT CCACAACAAA AACCACAACT TGAAGNGAGT TGAAAAGNGN TCAATAGTGG AAACAGTCGC CTCAGTACTT TINCTTTCTG GNITTCATCT CTAGAAATTT NAAGTGITIN AGNCAGAGTC CACCCTTTGT GCAAGGCENG AACCNATGAA TGGACTCCTT GTGTGAATTA TTGCATCTTC TTCCAAAGCA GGTTCATCAA GACTTTCACA GAGATTCATT TTTNTTGAGA AGTAAGGGTT AATAGGAGGA TAGAATTTGG TTCCNAATCT AGTGNTAAAA GTGTCCAAGC AAATCAAAAA GTAAGATATT TTAGGGGCCA TACCCACATC TT

SEO ID NO:1408: (Length of Sequence = 388 Mucleotides)

CCCCGCAGCA CCACGAGCIG ACCTCGCTCT TOGAGIGICC GGICIGCTTT GACIATGICC TGCCTCCTAT TCTGCAGIGC
CAGGCCGGGC ACCTGGTGTG TAACCAATGC CGCCAGAAGT TGAGCIGCTG CCCGACGTGC AGGGGCGCCC TGACGCCCAG
CATCAGGAAC CTGGCTATGG AGAAGGTGGC CTCGGCAGTC CTGTTTCCCT GTAAGTATGC CACCACGGGC TGTTCCCTGA
CCCTGCACCA TACGGAGAAA CCAGAACATG AAGACATATG TNAATACCGT CCCTACTCCT GNCCATGTCC TGGTGCTTTC
CTGCAAGTGG CAGGGGTCCC TGGGAAGCTT TGATTGTCCC ATNINAATGG AACGGCCCAC AAAGAGCA

SEO ID NO:1409: (Length of Sequence = 348 Nucleotides)

CAATGAACTC CITAAGCITT GTTAATATGA GAATGICITI ATCICITCTT TATITCCAAA GGACAGCITT GCIGGITAAA
ATATICITGG TTAAGTITTG TITTTAGTAC TTAGCATATA TCATTCCACT CICTCCIGGC CIGTAAAGCC TCIGCIGAAA
GATCCACTIC TAGCCTTAIT GAAACTCCCT TCIATGITAT TCCNTTCINC CTCTTGCIGC TTCCAACATC CIGTCTTGT
CCATAATTTG TAACAGATTG AATATAATAT GAATTAGNCC TCITTAGACT GAATCICATT GGAGNCTTTT CACCCTTCTT
GTTTTTGGGT ATTTAINICT TTTCACAG

SEO ID NO:1410: (Length of Sequence = 370 Nucleotides)

GACTATTTAT TCTGCCTTAA ATCAATGGCA AATAAGTCAA GATGACATTT TGTGAATGTA GACTATGGAT ACACTCCTAA
TAGATTGATG TAGTCATAAA AGGGGGTCAA GTAGATGTTT TNCTGTTATG TAAGCAATAA TTTTCCCGTG TCTTATTGAG
TATGGCTAGC GATTATTTAT TACATGCTAG ATGGGTTCTT TGCATGTGGG TTCCATATAG GTGCAGAAAT TTCCTCAGCC
ACTGGAGGGA TTTCGACCAT ATTTGTCATT TGGATGAGCT GTTATTAGAT TGAAATCTAC ACATCATTTC ATTAAAAATT
GTGCCCTAGA AAACGCAAAG CINTTGCACA ATGGCGATTA AAATTATGGG

SEO ID NO:1411: (Length of Sequence = 385 Nucleotides)

GICTCAAACT CCTGACCICA GGCGATCCAC CCACCICAGC GICCCAAAGI GCIGGGATIA TAGGCGIGAG CACCGCACCI
GGCCTATGAG TGGICITTIA ATTAGGAAAT TIACATTITI ACATTAGIGA GATTGGICIT TIGGGCTATT GIACITTITI
TTTITTTTTT TIGAGATGGA GICTIGCTCT CTCACCCAGG CIGGAGIGCA GIAGIGCAAT CITGGCCCAC TGCAACCICT
GCCTCCTGGG CTCGAGIGAT TCTCTGCCTC AGCCTTCCAA GIAGCTGGGA CTACAGGCAT NIGCCACCGC ACCTGGGGIA
ATTTINGIGG TTTTTAGIAG AGAATGGGGG TTTTGCTAAT GITTGGCCAG GCTTGGGCTT GAAAT

SEO ID NO:1412: (Length of Sequence = 337 Nucleotides)

CCATTCAGAT TCCTCCTGGG CCTCCTCGCC CCATTTGCGA CAGATTTGCT ACCTGCTCCA GCTCAGCGAC CCTTCCCTCT
ATGATGAAGT GCATTGAAGA GAACAATGGT GTGGACAAGA GGATCAGCAG GTTTATTCTC CCCATCGGGG CCACCGTGAA
CATGGACGGA GCAGCCATCT TCCAGTGTGT GGCCGCGGTG TTCATTGCGC AACTCAACAA CGTAGAGCTC AACGCAGGAC
AGATTTTCAC CATTCTAGTG ACTGCCACAG CGTCCAGTGT TGGAGCAGCA GGCGINCCAN CINGAGGGGT CCTCANCATT
GCCATTATCC TGGGAGG

SEO ID NO.1413: (Length of Sequence = 367 Nucleotides)

ATAAGTGGAG TGAAGAAATT AATGCATAGT TCAAGCCTAA ACAATACAAG CATCTCACGC TTTGGAGTCA ACACTGAAAA TGAAGATCAC CTGGCCAAGG AGCTGGAAGA CCTGAACAAA TGGGGTCTTA ACATCTTTAA TGTGGCTGGA TATTCTCACA ATAGACCCCT AACATGCATC ATGTATGCTA TATTCCAGGA AAGAGACCTC CTAAAGACAT TCAGAATCTC ATCTGACACA
TTTATAACCT ACATGATGAC TITTAGAAGGC CATTACCATT CTGACGTGC ATATCACAAC AGCCTGCACG CTGCTNATGT
AGNCCAGTCG ACCCATGTTC TCCTTTCTAC ANCAGCATTA GACGGTG

SEO ID NO:1414: (Length of Sequence = 360 Nucleotides)

GTATACAGCG TGGTCCAGCC ACCCGACAGC GAGATGGGCA TITITAAGAAA CGCTCTCGGC CAGATCTCCG AACCAGAGCC AGAAGAATC TNTACAAAAA ACAGGAGTCA GAACAAGCAG GGGTTGCTAA GGATGCAAAA TCTGTGGCCT CAGATGTTCC CCTCTACAAG GATGGGAGG CTAAGACTGA CCCAGCAGGG CTGAGCAGTC CCCATCTNCC AGGNACATCC TCTGCAGCAC CCGACCTGGA GGGTCCCGAA TTTCCAGTTG AGTCTNTGGC TTCTCGGATC CAGGCTNAGC CAGACAACTT GGGACGTGCC TCTGCATCTT CAGACAGAAT TNCTAGCCTG CCTNAGGAAA

SEO ID NO:1415: (Length of Sequence = 314 Nucleotides)

CTCAAACACA GCATTIGAAG TCITAATATI TTAGTACATA CTATACTATC TCINCITACA ATTGITITIT GITAAAGAAA CCATGITITIT NATTCIAAAG AGITTCCITI ACTGIGGATT TTACTGATTG CATCITTGIT GATGGGTTAA GATTGICCCIN ACTATAGCAT TAGINCITTC AATGIGCTGI ATTCAGTGCT GCCTCTGGGC TCCTAAACTG TGGAGGGCTG TTTGICCCTA

SEO ID NO:1416: (Length of Sequence = 370 Nucleotides)

TTCCATTTT GCTCCTTCTC AGGATAATAG CAGACCGGTG ATCACAACTT TAGTTTTGAT GAGATAACCT CCTTATCTTAAAAATGGT CTCTATTATT TTCCAAGAGA AGACCAGTAA ACACTAAACA CCTGCCTTGA TCTCAGTGTC TTAGATGTTT TCCTGTTTCT CCTTTATCCT AGCAAACTCC CCAGGTTGCT ATTCTTATTC CCATTTTATA GATGGGCAAC TGGGTAAGAG AGGTAAGCTT GGTGAGGTCA CTGAGATAGT GGGGAAAGGA GCTTGGTTCA CATCAGGTAT GCATTCCCCC AAGGTTCCAC TGGGGCATCT GAAGGAAGGG GTTTCTGGAA GTGCAAAATA TAGGGTACTG

SEO ID NO:1417: (Length of Sequence = 365 Nucleotides)

GACTOCTTOG CCAAGGAGC CATCAGCACC AGTTGITCCA GAGCAGCCAC AACACCAGTG ACCTCCCTTC TGCTTCCGGC
CAATCCCGAC AGAGCCTCTT CCCGAGTCTT GAGCTCCTGG ATAGCTGCCT CAATAAAGCA GGACTCGGGA GTGTGCTTCT
CCTCTGCCAG CTGCTGCTCT AGTGCTACTT TCTCCTCCAG AACTACCCGG TGCAGCACCT GCTCCTTAGA GGCCAGCAGC
AACTTGGAGT ACTGGCTGTG CTGTTCATCT CCTAGATGAA TGGGATGGTC TACATTCATC CATTTGGGCAAA
AGCCACCAAC AACCCCTTTT TTTCCCTCTT CAATCAAGCT GCAAT

SEO ID NO:1418: (Length of Sequence = 354 Nucleotides)

CCAAATCCTT AAGTTTACAA AGCTGTTGGA AAACTTTGTG TCCTGATTTC AACAATCACG CTTTGTTTGA AAGATGAGCC
AAGCTCACAG ACACTAAATT TTATGTCATG CCATAAGCTG GAGAGGAGCC ATTTGGCTAC AGCTGCGGAA CTTCATTGAG
GAGCAAATGA AAGGCACATG GACGAGCACG CTGGTGCAGT TCATGTTCTT CCTGCCTGTG AATTGAATAC TGTCCTGGTA
GCAGTTTTGG GTCGGTCAGG AGCTCAAGGC TGGTTTGTGT GGCTGACTAC GGATGAGCAC TGAAGTTGCC TCAAAGAATT
AAGGGGTGTC CACANCAGCC TCTTGGGGTC TTTT

SEO ID NO:1419: (Length of Sequence = 363 Nucleotides)

GIGGAAAACG TEGAAATGAT GIGGECACTG AAAGAAATTE AAGACAACTG AAACAACTGE AGATTITECAT TITEACCTEC TGTTTTCTTA TGAACAATAA CATTGCAGAA GGGGAAATAT CAGAAAGTTG ATTGATTTTT AACCCAAAAA TAGAACTTTT TGTAAGCTAG GAAAGCATCT AAAATTAACA AGAATACAAA AATGCACTTT TGTTTACATT TGCTCTATTT AGATCTTACA AGAGATTATG TCTTGAATCT ATCCTGACTT CAGCAAAAGA CAAAAGAACG TTGAAAACAT CCTATTTCCA AATCGTTTAC AGGAAGTTAC CTAAGGAGNC TGACAGATTC AACGGCTGCT ACC

SEO ID NO:1420: (Length of Sequence = 326 Nucleotides)

GAAGATTITC TAGAAGCAAA TAGIGCCACC ATCCGICATG AGENICIGIT TCIATAACGC TIGINIGICI TINAGACTAC
GIAGGIGGIA GCITATGAGI AGIAATGINC TITIGITAGI AAATGICACC AAATAAGCAA ATAAGAGAAA CATGAAGGCC
AAAAACTGIN TIACIATICA GGAGAAAATG GACGGITTAG CAACAATACA ATGIAGACTI CAAAATATGA AAAATCAAGG
AAATINCTGI CATTGICITT AAGGGCCTCC AGAGAAGIAT TAATTIGICC TITIATGIGAA TITAATGAGA TCATGIGAAA
TGIATG

SEO ID NO:1421: (Length of Sequence = 294 Nucleotides)

ACCCAGTACA GGTACTCTCA CAGGAGGCAC TCAGCAGGGA TGTAGTGACA GCAGGTAAGA NTCCACCTCT NTCCCTGCCT
GCNCCTGGGA TCCAGTATTG GCCCATGTAT CINCCCCATT TCCTCAGGCT TCCTGGACTT TINTTGGAGG GAAAGAGGAA
CAGAAAGAGG AGCAGGCAGG AGAAGCAAGA GCTCCCGGGG GCTATGAAAG GTAACATACC TGGAGAGTTT NGGGAGACGG
CGGCTTGINA GAGACAAGGG GAAGAGACAG AAACAGGAGT ATTCTAAGAA GCAT

SEO ID NO:1422: (Length of Sequence = 306 Nucleotides)

GAAGGCCATA TITAATAGCT GCTGCAAACA TATGGAATAG TGCTTTAATC AGTGGTGAAC AAGAAATTGC CTGTTGTTGG
TTATAAAAAC AAGGGACATT AATGINCTTG TTCTTGTACC ATAGTAATGT GNAAAAAAAA ATAGTGGTTG NAATGGTGT
TAATTTGTAC AGTTTGTGC AAAGTAGAAT GGGNCAGATA TTTTGGTGGA TAGGCTTTTG TCTTAGTTAT AAAAATTAGG
NCATTTGGTA TGATAAAGGC NGAGAATCTT AACAATTGGG CACTGGCCCA GAAAATTNCA GGGTGC

SEO ID NO:1423: (Length of Sequence = 274 Nucleotides)

TETETETETE TETETETETE TETETEGGAAA ATGGGGAAAG ACTGGTCTAG ATAATATTTC AGGTACCTTC CAACACTAAA ATGGTATGAT TCCCAGCTTA CAAAAAGCAA ACTATTTAA TATTCACCAC TCAATATAGT GTATCAAGCT CTCGGTTTAT GTTTAAGGGC TTAGGGAACA GCAGCAACTA TTCGTGGGCA ATTAATNCAA AAACTCATGT TACCAAAAAG GCATGTTTAG GRCCTGCAGG ATAGTGAAAA AGCAAGAACA GTCT

SEO ID NO:1424: (Length of Sequence = 297 Nucleotides)

GEAGGATTAC TIGAGCCCAG AAAAAAAAAA AAGCCTCAGG GGTTTCGGTG AATGTTGTGT GGACTTCCGT GAGAACAGAC
GTTTGATGTG AACTGANTTC AAGGCTGATA CAGCCCAGAA CCAGGNACAA GGTGAGAAAAC TGCTCGTTTC CGGGAGGCAG
GACTTCCTAA CCGGGAGGCA CTGCAGINCA CTTTCTGAAA CAGGTTTGGA GGATAGGGAA ATTCCTGNCA GCCCGGGGGG
ATCCACTTAG TTTCTTAGNA GCGGCCGCCCA CCGCGGTGGA AGGCTCCAGC TTTTGTT

SEO ID NO:1425: (Length of Sequence = 276 Nucleotides)

ATTITICAA GGATGGAAAG GICAGAGAAA AATAAAATAA AACATCITIC AATAGICTIT CCIGGIAAAA GCAGCGICIC
INIGGGCIGG GGAGIAAAGG GIGIGGGGCA AGGGGAGIGG GGAGAGGCIG TAAACCTICC CCCAAACCCC AGIITITAGAT
CCITIGGIIT CCITCICCCA GAAGATGENC AGAAGGGCAT NGIGGGNAAC AGCAGGGNGG AAAATATGGI GATGACAAAC
CCCAGATGAT CAAGGGGCIG ATGCTCCTGG GGCCCA

SEO ID NO:1426: (Length of Sequence = 295 Nucleotides)

TAGIGGCATA TGGACCGGAA AGGITAATT TAAAGGGGGG GAACCTCAAA AGIITTITTA AAAAAGAAAC TIGICIGCCA CAGIATGITA CCAGIGTTAA CCCITCIGCC AGITAGCAAA CTTTGCCTT AAGCCITTIT CCTCTAGGAT ACTCCCCATG TTTCGGTAAT CTTGGGCATA CATTTTTTAA GNATGGACCT CTTTGCCTTG TTTTGTTTTC ATGCTGCTGT ATGTCCAAGT ATTGTTAATT TCATAATAAG ACAAGAGTTG CTTTCTTTTT TAATTCCTTT TTCCC

SEO ID NO:1427: (Length of Sequence = 207 Nucleotides)

TCAGGAATGA TAGTATCTOG GATGAACTCT TCTTTAATAA GATTCAGGCC AGINITGGTG GGTGINTGCG GATGATTGTT ACTGGRGCAG CCCCAGCATC ACCAACAGIT CTGGGAATTT CTCCGGGCAG CTCTAGGGTG CCAGGTTTAT GAAAGGTTAT GGCCCAAACTG AGTGCCACAG CTGGATGTAA CCTTNCACCA CTCCTGG

SEO ID NO:1428: (Length of Sequence = 223 Nucleotides)

TAACATTCTC TCCAACCTCC CCAGGTCCCA TCAGTGTGA GAAGGAATCT AGGCCAGCTC CTGGGAGATG CCAGTTAAGC
CGCTTTGAAT CCTGTGCCTT TCCAATTGNC CCTTATAGCA GTCGATGTCA GGGATTGGGA CAACTTTCAA AACAAGTCCA
TCAAAGTCCC CATGGGCACT AGGGGCTCTG GGAACCCAGT GTCGAGAGGC TTAGAGNCAT TGC

SEO ID NO:1429: (Length of Sequence = 222 Nucleotides)

AAAACCAAGG AGCAAAGGG AGACAGAGAG AAAAGTGGGA TGGATTCAAA GACATTGCAA CATAGAACTN ACCGAACTGG CTTGTNTGAG GTAAGGGNGG CAGGATGACT CACAGGTTTC TGGGATTATG TGCAACAGGT GGAAGGTGAT GCCATTAGCC AGAATAAGGC TGTAGGGTNA AGGGGAGTNA AACTGGTTCT GGGGGTATAA CATTGATAGG CC

SEO ID NO:1430: (Length o: Sequence = 246 Nucleotides)

CAAAATTICC TGIATCCTIT CATGGGTIN CITITGITG TITTGGIAAG AACATTIAAC ATGAGATGTA TCTTINAGIT GITGITGIGG TIGANCTITT TIAGATACAT AGTCTCACTC TGITACCCAG GACTGGAGTG CCAGTGGACA TGATCCACAG CTC:LTGACA GGCCTCAAAC TCCTGGGACC CAAATGAATC CCTCCCACCT NCAGCCCTCC CAAGTAGGCT AGGGACTACA GATGIG

SEO ID NO:1431: (Length of Sequence = 364 Mucleotides)

CTINCCACTC GATGATGCTT CTATAATTIT GCCCTITIAAC AGAAACTTTC AAAAGGGAAG AGITTITGTG AATGGGGGAG AGGGTGAAGG AGGTCAGGCCCACA ATCGGCCCACA AGGGTGAAGG AGGTCAGGCCCCACA ATCGGCCCACA ACCGGTGAA ACCGGTGAA ACCGGTGAA ACCGGTGAAGG CCTCCATTTA AAAGCATTAA GGCCGGTACG GCATCTTCAA AACAGAGGGC TGGCATTCGA GGAAACCCTT GCTGCTTTAG TCCCGGATAGG GTATTTGAAC CCCGCNTATA TTTTAAGGCA TTTTAAATTC TCTTCCCCCC ATTTTATTGA CTTTGAACAA TTAA

SEQ ID NO:1432: (Length of Sequence = 208 Nucleotides)

GIGAGINAAC ATGGATGGAA ACAAATTATT AGGITGINCA AAGTGAAAAA CACCAAAAAT AAGATTTAAA AAGAATGTCA GGIATCCATA GAAAAATATT AATAGGICTA ATACATATGT AAAANTTGGC GTCCCAGGGG GNAGAGACTG NAAAGTTATA TTTINNATGG CIGAAATCCC CCCAANTTTA ACATAAAGCA CAACATTT

SEO ID NO:1433: (Length of Sequence = 274 Nucleotides)

GGAAGGITTT TAATGCATGA AGTATACTTG TGATCCTGGA GGTTGGAAAA GATTCAGTAA AGATAAAGTT TCCCAAAAAT GATTCINICC CTAGGATTTG GGGATATGTA AATCAAACCA AAGGCACATT CTGCAGCTCA CAGCAACCTT CATTTTTTGT CCTAGATTGA GITATCTATC AAGAATCATT CATTCCCTCT CAGCCCTTGC AACTGTTTCC NATGACTTTG GACTTGGCCA
TGCAACTTGC TTTGGCCAAT ACAATGTGAG TTAA

SEO ID NO:1434: (Length of Sequence = 249 Nucleotides)

GCICCATAGG TCIAAGITTG ANCITTTCIA GAAAAGGATT TGCAGGACGA TCIGACGAAT CTIGGGCTTC CAAATTAGIT CCAACAGITC TAGIATITIT TTTTTTTTTT TTTTGACAGA AGCAAATAAG TAAGITTNAC TTTGIGATTA AAACAAAAGT GAAATGCAIT TAGICCCAGG AAATGNCAAT CCTTTCIGCA TCINACTTTT TTTTGCIGIG ACCTCGAGNI TCICTTGICC TCITCAGIT

SEQ ID NO:1435: (Length of Sequence = 201 Nucleotides)

GAATGGGGCC AATGGCACTC ACTGINICIT CAGGCCCCCA CGGACGGCAT GCCTGGGGAA GCCTAGTCIA CITACCATCA GCACGITGAT CINICACACA GCATGGAGCC ATAGITTACA AAGGACCACG GCAGGTCAAG GACAGGCCAC TAAAACITIT GGTGCTGGGC ACATNACCCA CCCTCACCAN CATCAAAGAC A

SEO ID NO:1436: (Length of Sequence = 312 Nucleotides)

SEO ID NO:1437: (Length of Sequence = 294 Nucleotides)

ATTCCAATGG TAATACTAAC GAATTGTGCT ATCTAAATAT TGGATAGTAA AAACGTCAAC ATTTAGAAAA TGTATATCAC ACAGGGAACC AATATTTTINC AAATTATCCA CATCTAATAT TAGGCAACCA CGCGCAANAA AAGACACGTT CAAAGTACAG GAGAAATGGA TGGATTTTAA TGTGAGATAG TACAAGANGT TTATTGATAT AGTTTCAAGA TTCCATATTG TAATAAACCT TTAANGAAAC TTTCACTTCT TGAGTTTTGG GTATAGGAAT CCAAAAAAAA AAAA

SEO ID NO:1438: (Length of Sequence = 311 Nucleotides)

GGCCCTTIGA CITIGIGAAT GAGCACAATG AAATGCCGCC TACTGATGCT TCTNATGATC AGAACTCTIT TITAATAAAA
TAAATAACAT AAATCGITGA ACATAATGIT CCNGITGAAT GCAAANCAAA AAAAATATGG NAAACATTIT GNIAAAATTI
TITCCNGNIA AAACCATGAA CANTGGCTAT GATGAAGGIT ATTACATATG GAAAAAAAAC TCACACAAGC ATATTITGNAT
TTGGCTTGAA GGGAACCCAT CATTAAATGC AANGCTAGGG ATTCTTTING AAGCAGTTGA TCCTCAGGIT T

SEO ID NO:1439: (Length of Sequence = 265 Nucleotides)

OGTGACACAG TIGAAGGAGT CECTIAAAGA AGTCCAGCTG GAGAGAGATC AATATECTGA ACAAATAAAA GGAGAGAGGG CCCAGTGGCA GCAGAGGATG AGGAAAATNI CGCAGGAGGT TIGCACATTG AAGGAGGAGA AGAAGCATGA TACGCATCGG GTAGAGGAGC TNGAGAGGAG CTINICCAGA CTCAAAAACC AGATGGCTNA GCCACTGCCC CCGGATGCCC CAGCAGINIC CTCTGAGGTG GAGCTNCAAG ACCIT

SEO ID NO:1440: (Length of Sequence = 241 Nucleotides)

GRACCAGATA GUALTATURAL COMMANDE CATGUARCGE GUALAGATO CUATATURAL TEMATATURAL GAAGCAGATA GUALTAGATA GATUATURAC ATTUTURAGU CATGUGUUA GUALTUGUU CAAACUTGUU CAA

TIGGNATUT ATAGIGITIT ATTTATTATA TACTCINCIT GIAATAANNI GGIAATCIAG TITCCAGAAT CATGCAAATA

SEO ID NO:1441: (Length of Sequence = 247 Nucleotides)

GACCCCGATA TTCCGGCATC ACATAGATAT CCTCCAGATA AANGGTGCGT CCCTTCCATG TACTGTAGAT GAAATAGTAT ATCCCATAGC CCACCACGCA GGGCCCCAGT AGCTTCCCGG GCGCTGGAAG AATCTCTGCT ACCAAACAGT GATAGAAAGG ATTGINTCCA AAGCCATCTG CTCTCAGGGC TTCTTCACTG ATAGGNGTTT TTTTCAAGNA ATAATCCATG CTAAGAATGG GGTATTT

SEO ID NO:1442: (Length of Sequence = 233 Nucleotides)

GATTACAGCC AAGITCATGA ATACAAATAA AATAGCAATT TCCCTCATTC TCTCTTTTGT TTTCTGNTCA GAGAAATCAG GAGATGGGAG CATTATGCTC AGAAACCGAA GAGCTCTTCC AAGAGCTCCA GCTTAGAGTC CAGGCTTCCA GAGCATGCAG CCTCCTAACA CGTATGTGGT CACATGTGCA AAGACCTNTA TTACAAAATA TTCAGAGCAG NATTTCTNTT AGG

SEO ID NO:1443: (Length of Sequence = 288 Nucleotides)

AATAAACAAT GIGCAGGTTT TTATAACTGA TCGGAAGAAG GTTGACCCNC AGITATCACC TTTAAAAAAT GGTCTTAGTT
AGGCTTTCTC CCTTTGTCCT TTTCCAGAAG AAACTTGGAG TCTGTCAAAT TTCACAAAAT ACCCTGTTGA GATTTTCCTT
GGCTTTG-TTA AGGGTGAATT CACAGATTAA TTCGGAAAAG AATTTACGGC TTTCTAATCA AATTGTTCCT TCCAGGGCNT
TTTGTGNTTA TTTAGGNCCT TCTAAAGGTT AACCCTAACT TTGATTAT

SEO ID NO:1444: (Length of Sequence = 208 Nucleotides)

GGAACTGAGT CACAGGGCCA AAGCCCCCTT INCCTCACGT GAAGCAACTC AGTAAGATGG CGGTGCAGTG AAGCCTATTC
CCACACACCT CGGCACTGAT GGAGCAGTCT CCAAAGGAAG GCTGAAAGGA CAGCAGGTGG TTGCCTTNGG GTCCTTCCTT
CCCATANCTT TAGAGTGCCA TTTTTCAGCA ATGGGTAATA GCATCAAC

SEO ID NO:1445: (Length of Sequence = 239 Nucleotides)

CCCCGGTCTC TNGGACACCA TTTTCTGCCG CTGGACGCAA GGGTTTGTGT TTAGAGAATC AGAGGGATCT GCATTAGAAC AGTTTGAAGG TGGCCCCTGT NCTGTTATTG CACCTGTNCA GGCATTTCTT TTGAAGAAGC TCCTGTTTC TTCGGAGAAG TCTTCTTNGC GGGATTTTTC AGAGGANGAG CAGAAGGNAC TCCTTTGTCA TACCTTGTGT GATATTTTTAG AAAGTGCTT

SEO ID NO:1446: (Length of Sequence = 243 Nucleotides)

TGCAGGGAAT TINTIGATGC AAAACCAGGA AACAATTIAT CTCCACTGGG AATACTITGA AGAAGGGATT AGAGCGGGGC
TAGGGCAGGG AGGATCINTA AAAAACAATA TITGCCAAAC TAAAAACACA TAGGCACACA TGGGNATTAT TITACTITCA
ACAAGITCTG AAAGTAGTAA CAAAACCAGG GAGAGITAAA AGAATAATTT AACACTNA'G NITCAGGAAT GCTAAAGGAG
ACC

SEO ID NO:1447: (Length of Sequence = 371 Nucleotides)

AGITATAAAT GAACATCIGI TGCCTACTTA ATAGGICATT GAGIAGCIGI GACCCATTCI TAATTIGIAT GIAAGCATAT
FITTTACATA TITGIATCIA CITCATTTC CCTTGAAGCI TGCCAAATTG GIACACTTCA GIATAACTG ATGICTCITA
TATGCTGTAC CACCTTCTTA AAAATTGAAT TATCTTTCCT TCCACCTAGA TIGGTCTCAA AGCATTTGTT TTTTGCTGGAC
TTTCCACTCT TGACCATAAG ATGGTAGCAT TCCCTAAGGA TATTGCAGCA CAGTCTAATT CCACTGGTTG TCATCTACAG
TTAAATCGCA AATAAAAAAT AATAATAAGC AGCAACTGAT TGCTCAAGTT G

SEO ID NO:1448: (Length of Sequence = 366 Mucleotides)

AATTTIGIGT CCIGIAGGAA AIGCITCCTT GGGIGITIGI ATTATAGCCC AATCCAAGIC ATCCCIGAGA ACATCCCCAG
GITGIAAGGA TIAGICAGAA GICAIGAIGA CIGICCIATA TAAATATIIG GCCIATIAAC TAAAATTAGI ACCIINCCAT
TICTCCNCIT TCITGGGCGG GGCAGCGGG GAGIGCAGGG GAGGGGAAAT AGGGAACGIN CAATTGINIT TIAAGTAATG
CTCATAAAAT TCITAGNCAA AGAIGATCIT GCCCTCCACC TIGGIGACCC ACCGCATACG GGGIACATCI ATCIGGCCTG
TCTCIAGGCC TAGACAGAAG GAACAGGAG GGITATITGIT AACTTT

SEO ID NO:1449: (Length of Sequence = 234 Nucleotides)

GTTGTGGGAG GGACCCGGTG GGAGGTAACT GAATCATAGG AGCAGTTTCC CCCATGCAGC TGTCGAGATA GTNAGTTTCT CATGAGATCT GCTGGTTTTA TAAGCTTCTA GTGTTTCCCC TGCTGGCACT CATTCTCTCT CCTGCCACCC TGTGAAGAGG TGCCTTCTGC CATGATTGTA AGTTTCCTGA GGCTTNCCCA GCCATGCAAA ACTGTGAGTC AATTAAACCT CTTT

SEO ID NO:1450: (Length of Sequence = 220 Nucleotides)

GCTTTINCTC TCCCTGTTTT GTTTTGTAAC CTAAGGAAGC AGAGCCTCTG AGACCACACA CAGCAGCGTC GCCCGTCCCC
AGAGGCACCC CGGCCAGGAC GGGCAGGAGA GGAGACCCCC GTTCCTGCAT GCNCTGTCGC CCCGCCACGG TGNTCTCCGC
AGGGTGAGGC AGGAGGGTGG GTGGAGGCGC CACTGNTCCT CAGCTGGAAG GGCGGGGCAT

SEQ ID NO:1451: (Length of Sequence = 403 Nucleotides)

COGCTGITCA CCIACOGCCI GATIAAACIT GCCITCCIGI CCTCCAAGAC CAGATGATGA TIATICICCA CCGTCIAAGA
GACCAAAGGC CAATGAGCTA CCGCAGCCAC CAGTCCCGGA ACCCGCCAAT GCTGGGAAGC GGAAAGTGAG GGAGTTCAAC
TTCGAGAAAT GGAATGCTCG CATCACTGAT CTACGTAAAC AAGTTGAAGA ATTGTTTGAA AGGAAATATG CTCAAGCCAT
AAAAGCCCAAA GGTCCGGTGA CGATCCCGTA CCCTCTTTC TAGTCTCATG TTGAAGATCT TTATGTAGAA GGACTTCCTG
AAGGAATTCC TTTTAGAAGG CCATCTACTT ACGGAATTCC TCGNCTGGAG AGGATATTAC TTGCAAAGGG AAAGGATTCG
TTT

SEO ID NO:1452: (Length of Sequence = 353 Nucleotides)

TECCTAGAGA GEGECCEGGA TITAGAGAGC TETTCTTCTE CCTATCTGAT CECCTCCTCA GACACTGATC TATTAGTCTA
GEGCTGCAAT TACTTGGATT GEAATGTTC CTTGCAATTT TEGCTTTTCA AATTCTTTTC ACCCTAAACT GEAAATACGC
CAGGAGTAGG TAAAAACTTA CAGGTAAACA TIGCCAAGAN ATAAGGATTT TNATGTCTTC TECTCAGTGG CATAACTCAA
ATCACATGAG ATAGATTTCT TIGCATCTGT CCATTGTATT TCTCTGAGGC TAATTTACAG CACTTTGTCA CGTTAGGNAT
TTTTTTTTCCC CAGTGCTGCT ACTCTCCAAC TGG

SEO ID NO:1453: (Length of Sequence = 258 Nucleotides)

GITGCCCCIN CIGICITICI GINACCCAGA GAAAGCTICA CAAGCATGCC TENAATINAG TIGCACCATI TIATTACAGC
TEAAAGANIT GANIGIAAAG AAGGAAGIIT AATAGANCAT ATAAINCAGC AGATITATIG ATGGGGAGGI ATCIATIGIA
GITTGGCCAG TGAAGGCAGG TCATAGAGGA AAATTTAGGI AAGTCGGATT TNCTITTAAAA AGAGGCCCAA GAGTTAGTAC
CTCAGGATIT TGTTTTCT

SEO ID NO:1454: (Length of Sequence = 328 Nucleotides) --

GAGATGGAGT CTTGCTCTGT CGCCCAGGCT GGGGTGCAGT GGCGCGATCT CTGCTCACTG CAAGCCCCGC CTCCCAGGTT.
CACGCCATTC TCCTGCCTCA GCCTCCCGAG TAGCTGGGAC TACAGGCGCC TGGCACCACG NCCAGCTAAT TTTTTGTATT

TTTGGTGGAG ACGGGGTTTC ACCGTGTTAG CCAGGATGGT CTCGGATCTCC CGACCTCATG ACCTGCCCGC CTCGGATCTCC CAAATTGCTG GGATTACAGG CGTNACAACC GCGCCCGGCC GGTAGCAATA GTTTTAATTA AGGTCTTAAA ATCATACAAA AAGGAATT

SEO ID NO:1455: (Length of Sequence = 342 Nucleotides)

AATTTAGGTA GATTAGCATT CCCATGTAAC TTACCAGAAT CAGAATGAGA ATTCAGAAGT CACCTGANIT GGCCGGGCAT
GGTGGCTCAC ACCTGTAATC CCAGCACCTT GGGAGGCCAA GGCAGGCAGA TCATCTGAGG TCAGGAGTTC GAGACCAGGC
TGGCCAACAT AGTGAAATCC CGCCCCTACT AAAAATACAA AAAATTAGCC AGGCACCCTG TCCACAGGCC CCACACAGAC
TCGAGGGGCC CCCATCTCCT GTTCTGAACC CAACAGGGTG GTCCCACTNT GGGACCACAA ACCAGGTATG ACTGTTTNAG
AAGCAGGCTC ACTACCAGGN TA

SEO ID NO:1456: (Length of Sequence = 296 Nucleotides)

ATCTITGACC TATTAGGIGA ACAAATGAAC CICACAGGAC ACACAGTATT TITTAAAGGC AGACTCGCTC TCTTTTTTGC CAGINAGCAG TICTAGGTAA CCAAGITACA CACIGIGGGT ATTCCIGCCT GCCTCTTGAA TACAAAGGCC TAGTTCAAGT GTTGCTTTTT TNATTTCAAA TCAATTTTTT CTTCTTTCCT TTTTGAGATA AAACTATTAA AAGTACTACT ATATATATAA AANCTCAAAT CAACTTTTCG GCCTCCTCCT CGTGTACCAG GGAGTATATT CTGACG

SEO ID NO:1457: (Length of Sequence = 314 Nucleotides)

GAGGATICAT AAGTAGAATI TATAAAGAAC TCCAAAGAAT CAATAACAAA AAGACTGGCT ATGGCCITCG NAGAGCAGCT GCTGTCCTGG AAATCAGAGG ACAGTGAAGG GAAGTCCGAA GATGAGCCTG ACACCATTCC GACATCCGTC CTCCTGCAGG TGGTGGAGCT GCTAGGAAAC TTCTTNTGGA CCACGGACAT GGCAGCCTGC NTGAAGGAGC TTGTTTTCCA TCTCCTGGCA GAGCTCCTAC GCACGGTGCA CACCCTGGGG CAGAGGCGGC ACCCCGCTGG CCTGTNCTCC TCANTCGCCC TCCA

SEO ID NO:1458: (Length of Sequence = 254 Nucleotides)

GTTCCAGTCA CAGATGTTTC ATTATCACTA TTCAATATTA TTAAGCATCT AATAAGTATA AGGATGCATG AGTCAAGGGT CCCTACCTTC AGGTCGGAAG CAGGAAAGAG ACCAGATCCT AGAACAATAG GACATGGTAC CCGCTGCCTA GACGGAATTT AGAATCCGGC TGGGGTGAAG AGATTAATGA GCGAGTCATG CCATCAATGT GCTGTAACTG AGGTCCTAAA AACCACCCAG CCGCGACACA AACT

SEO ID NO:1459: (Length of Sequence = 343 Nucleotides)

SEO ID NO:1460: (Length of Sequence = 348 Nucleotides)

ATTGICAACA GIGITITITAT TIATACCTAC AAAAAGAAAA CAAGATGATG GIATCAAAAG GACAATTTAC AAACTAAGAA
TAGTAACATA GCTTTCAGCA TCCTGTGCCT GANCATCACA CATCTACAAG TCTTTCAAGT CITAATGCAA CAGGAATGIN
TTTGGAGACC NGCAAGAACA TCAATAGAGA GCACTGATCC CAAGCAAAAG CCACTAACCT TTTAGATGAG AAGTCCNCAC
AACGNATTGT TAGGGAGGAT TTGGGAGAAG CAGCCCCTTT GCTTAATACA TINGGACCCC TTTCCCCTAA GTTGAGGTTC
AACCCTTGAA TGCAATAACT TGGCATAA

SEO ID NO:1461: (Length of Sequence = 343 Nucleotides)

TGGGAAGATC AGGICITACT TGITTTICTG TCCCCTCCAG CGCTAGATCA ACACAGIGIT AAATTAGITG AATTICAGIG
GAGGAGATAA GACAGAAATG AAATCIGTGA AGATCAGAC TTTCCCCAAGI TAAAACCAGI CITGAGITAC AGATCAAGAT
GATGCCAGAA ATAACATCAC ACTGAAACAT CAGTCAAATG TAGTCATCAT GGCAAAGGCC AAATGICCCT TTCTTTTTTT
GCCTCCGCCT GCCTGGGAAT TTAGCATCCC CTAAAGCCAC TCATCTGGGA CAGGATTITA GGGTGTGAC ATGTTTTTCA
ATCTCCACAG GACCCAGCTG TGT

SEO ID NO:1462: (Length of Sequence = 335 Nucleotides)

GGCATGGAGC AGGCAATGAC TTGTTCATAG TCGCTGCAGT TATGAGCACC AGCTTGAACT TAGGAACTCT TATAAATTTC
TGTTTTCAAC CAAGTATTGA GTGTCTGCTA TGTGTCAGAC ACTGCGCTAG GTGCTGAAAT CTCACTTCTA CTGAGGAAGA
CAGGAACATA AATGGTGATG ATCATTGCAT TAGAAGTGAT GCCACGGGAA TAGTGTGGGG CCTCTCCAGG GGGATCTNAA
GGTAGGGAGA CCACACTTCT CCAGTGGTGG AGAGGGCAGA CAGCGTGTAT NGGGTCCTCA AGGTCTNATT GCAAAGGTCA
TGTTTTAGCT GTTCA

SEO ID NO:1463: (Length of Sequence = 382 Nucleotides)

GGACCGCTTT CGGTTCCTCA GGATAAACAC GAGCATGCCC ACCACGGTGA AGGCGGAGGT GACAAACACC AGCAGCAGTC CCGGGACCAA CACCGAGATG GACACCCTGC TGGTGTCTAG GTAGGAGTTG GAGTGCGTCC CGGTCTCCGC CAACCCAGTG CTGTTTTTTAC TGTGCGAAGT TAACGTGGGC GAGATCCTAG CGTACAGCTG AGGGCAGATC TCGTCATTGG AGAGGAGCAT GAAATCCTTT CTAAAGAAGT TCACCGGCGT CTCACACTTN AGGTCGCTCA TCAGCACTTC GGAACCCAAG CNTTCTGNCC ACTTGCTTGA AAGGCACAAT TGINCAGGAG CACTNCCAGG GGTTTCCGTG GAGGGTCTAT CT

SEO ID NO:1464: (Length of Sequence = 187 Nucleotides)

AANGACCTCA TTTCAAAGAA GAGCCGTCTC CTGACAAGGG ACGTTTCCCCA GAGAGGAGAC GTGTTAGTGC AACAAAGACC AGGCCCTGGN AGCCACGAAA GCCCTCCAGA TGCCTTGAGG ACGCCGTCTN TAGCCGNGTG GGCCACGNCC GGGTGGGGAC AGACAATGAC AAGAGGCAAG ACAGCCG

SEO ID NO:1465: (Length of Sequence = 276 Nucleotides)

TTTACACAAT CAGTATAATA CTGATAGGAA AACTTGACTG AGTTCAGAAA ANGAAAACGA AGTAGAGATC TCACTTGCAT CAGAACAAAA TGTCAATCTA TTAGCAGATA ATATTCATCA GTATTTTTTTIG AAAATACAAT ACCACANGAA AGAAACAGTG GACATTTGGA GGGCTTTGAG GCCTGTGGTG GAAAAGGAAT TATCINCCCG TAAAANCTAG ATAGAAGCAT TCTCAGANAC TTGTTTGINA TGTGTGCCCT CTACTGACAG AGTTGA

SEO ID NO:1466: (Length of Sequence = 375 Nucleotides)

GGGGTTINAC CATGTINCCC AGGCTGGGCT CAAGTGATCC ACCCTCCTTG GCTTCTCAAA GTGCTGGGAC TACAGGTGTG
AGCCACTGTG CCTGGCTGGT TTTINTTTT TNAATGAACA TGTTGCAAAT CACGCAGAGC ACCIMINATT CTGCATTINC
TGGGTTATAA CAAACATTGT CATCTCTGCC TACATTTAAA AGGCTCTGGT GTTATTTTAA TATGTCTTTT CAATTTAGTA
ATTAATTCTA ATTTTCCTTT GAGCTGAGAT GTTATTCATT GTTCTCCTAG AGTTGCTTTT ATTTGTTCAT ATATGTTTCC
CTTAGCATGT TTTTCGTTATC TCTTAGTTAT TAGATACCTG AACATTYGAC ATTGG

SEO ID NO:1467: (Length of Sequence = 319 Nucleotides)

TGATAAAAGG AAAACGITTI GATITATAGI ACCAAGIGCI TAAACACAAG GATAGIGITA GATITICGAG TGACITICCI
TITTGCATIT TITGGCAGIA AAAGCCAAAC GITGTATITG TCCTTTTCAG AGITGTCCAG CCCTTTTTIC CITTGTCCAA
AATGATTCTA AATAGAATCI AATAAACCAA TGIAGCATTA TITTTTTCTA AATGAAGCCC CAAAAAAGAA AAGIGCCTTG
CATCATTTAA AAAAAATAAT TAAATCCTCA TGGCCTCTAA ATTAGGTATG TAGGGCACTG AAAAGITCTI AACATTTTT

SEQ ID NO:1468: (Length of Sequence = 352 Nucleotides)

TTTGGITAAC ATTCCAAACA TGIATAACCA ATTAACATGG CCTAGGGITT TCTTTTTATT GGIATTCACT TCAGTAACTT GAATCCACAG ATATAAGCAG TATATAACCA GAAAGTTACA AGTAAACACA AATTATACAT GCAAATTTCT GITCACAAAG GTCACATGTG CAGGTACATG ANTTAGAAGC GTGCATCTAG GATTATGGCC AAACTGTTTT AAAAATGCAG AAATGTAAAA TTACATCTTG AAAATATGAA GAGATGGTCT ACACACTTCA AAAATCAAAT GTTGCTTATA CCAGAGATGT ATGTCAATCA CGGGNTTCAA GTGACAAGCA GTAAGGATCC TC

SEO ID NO:1469: (Length of Sequence = 427 Nucleotides)

GAGATGGAGT CTTGCTCTGT NACCCAGGCT AGAGTGCAGT GGGGAGATCT CGGCTTACTG CAACCTCCGC CTCCTGGGTT
CAAGTGATTC CCCTGCCTCA GCCTCCCAAG TAGCTGGGAT TACAGGCGCC TCNCACCGCA CCCAGCTAAT TTTTGTATTT
TNAGTAGAGA CGGGGCTTTA TCATCTTGGC CAGGCTGGCC TCCAACTCCT GACCATGTGA TTCACCTGCC TCCACCTCCC
AAAGTGCTGG AATTACAGGT GTGAGTCACC ACACCCGGCC GGATTCTGTT AGTTTTCTTT AATGCATATT GAGTTTCTTT
AGTTTTAACA CACTTAT CTTGGTTGGA CCCAAACTAT TCACTATGTT TCTTGGGGGA NAGCTTNGAA TCTTGGGGTG
GNAGCCAATT TAGTAATAGC CAGGGTG

SEO ID NO:1470: (Length of Sequence = 426 Nucleotides)

AGGAGITIGA GLCCATCCIG GGCAACANAG GAAAACCCCG TCICTACAAA AAGAAAATIT GGITITINATA TITATITIGIA
TTAAATITIT TAGAAACATA GCIGGGCATG GIGGCACACG CCIGTAGICC TAGCIACICA GGGGCCIGAG GIGGGAGGAT
TGCITGAGCC CAGGAAGITG AGGCIGCATI AAGIGITGAT CACACCACTG INCIGCAGCC TGGGTGACAG AGIGAGACCC
TGCGACTCCA GACAGGIGCA CACCACCACA CICAGCIAAT ITITIGIAGA AATGAGGICT CACTATGITG CCCAGGITGG
TCITGAACTC CCGGGCTCAA GIGATCCACC TGICTCAGCC TCICAAAGIG CIGGGATTAC AGGCATGAGI CACAGIGCCT
GGGCCCAAAT TCATAGICCT AAACAT

SEO ID NO:1471: (Length of Sequence = 372 Nucleotides)

AGAATATTAA AAAAGACCAG ACGCTTAAAG CAAGANTTGA AATACCTAGT TGTAAAGATG TGGCACCTGT GGAGAAGACT
ATTAAGTTGC TTCCCAGTAG CCATGITGCA AGACTACAAA TATTCAGTGT AGAAGGACAA AAGGCAATTC AGATCAAACA
TCAGGATGAG GTTAATTGGA TAGCGGGTGA TATTATGCAT AANCTTATTT TTCAAATGTA TGATGAAGGA GAAAGAGAAA
TCAATATAAC ATCAGCTTTA GCAGAAAAAA TTAAAGTTAA TTGGACTCCT NAGGTTAACA AAGAACACTT GCTACAGGGT
CTGCTTCCTG ATGTGCAAGT ACCNACATCT GTAAAAGATA TNCGCTATTT CC

SEO ID NO:1472: (Length of Sequence = 332 Nucleotides)

GGTAGAGACA GGGTCTCACC CTGTTGCTCA GGCTGGTCTC AAACTCCTGG GCTCAAGCNA TCCTTTCACC TTGGCCTTCC
AAAGTNCTAG AACTGGCCAG GGGTGGTGGC TCATGCCTGT AATCCCAGCA CTTTNGGAGG CAGAGGCGGG CAGGGAGTTT
AAGACCAGCC TCGCCAACAC GGTGAACCCA CTCTCCACCA AAANTACAAA ATTTAGCTGG ATGTGGTGGT GGGCGCCTCT
AATCCCAGCC ACTCAGGAGG CTGAGGCAGG AGANTCACTT GANCCCCGCA GGCGGAGGTT GCAATGAGCA GACACCGCCT
GGACGACAGA GT

SEO ID NO:1473: (Length of Sequence = 434 Nucleotides)

GCCTTTAATT TGGTTTINCT ATGCCAGTAC AGAAACATCT GGACAACACT CTTGAGCCTG CAGAGGCTCA CGGCCACACC CACTTCTGCC GCAGGACTGT CTGTTGAGGA GCCGAACCGA TGAGGCACAG TAGCCAGGCC CTCCCGAGGG CTCCAGAAGC TCTAGGTTTA CGGGGTCACC TTCTTGTAGG TGACGTGAAG ATGCTGAGTC ATTGGCTGTIN TCGTGGTTGC CATGGAGACC GTCTGCCTCAA GTTTGCCTTC AGAATTCAGC CTGAACTTCC GGGTGATCTG CTCTACGTGG GGCTCCTTCG CGAAGGAGAT CCTGGCGATG GAGTGGGATG CGATGCACAG MTCCTGCCCG TTCAACTCGC CCTCCTMCAC TTTCCANCAC GGCTGTTTTC TTGGCGTGAC AAAAGGCCAC CTTTTTGGTG TCGG

SEO ID NO:1474: (Length of Sequence = 402 Nucleotides)

GACGITINAGG TEGGAGGITC GTTTGAGCAA CATAGTGAGA CCCCGTCTCT ACACAAAAAC AAAAAAAATA AAAAATTATC
TGAGCATAGT GGAGCATGGC TATGGTCCAA GCTACGTGGG AGGCTGAGGT GGGAGGATTG CTTGCNTCCA GGAGTTCAAG
GCTGCAGTAA GCAGTAATGG TGCTACTTCG CTTCAGCCTG GGCGACAGAG CAAGACCCTG TCTCGAAAAA ATAAATAAAG
TAAATAAAGT TGAGAATTTT GTATTTTGGT ACAGAAGGTC TATGCCTTIN AAATGCTCCA TTTGGACACG CTTAGGGCAG
GACGCTCTGA AACTGGGAAG CCTGGGGCCC TGTACANTCT TGGCTGTCCC CTGTACANTC TCCTAACTCT AGAGGGCTGG
TT

SEO ID NO:1475: (Length of Sequence = 324 Nucleotides)

TIGCATACCT GIGCTGTGTC AGACCAGGCA GAGICATCIC ATTCCACTGG TCTAATGGAT GGCAATTGAA TTTAATTAAC
AAAACTCCTT TGACTTAGTT TCATACTGIG CIGAATGTAA TGGAATCCTC TCTGCCCCCC TTATCTCTCT CTCTTTCACT
CTCTCTCAAC TAAAAATTGT CCTTAACTAA CATCCACTTT AAGAATATTA AAGGCTATAC ATTATACTTA AAAGATACAA
TACAGTCATC CCCCTTTCCA TGACTTAAAT TGTATAACAT AAAATAATTA AAAAGNTACT TTGGATAGTG ATACACAGTA
TAGG

SEO ID NO:1476: (Length of Sequence = 244 Nucleotides)

GAAAAACCAG AAACTCAAAA TCAGAGTGCC TCTCCTCCTC CAAAGGAACA CAGCTCCTCA CCAGCAACGG NACAAAGCTG
GACAGAGAAT GACTITGACA AATTGAGAGA GGAAGGCTTC AGAAGATCAA ACTACTCTGA GCTAAAGGAG GAAGTTCGAA
CCNATGGCAA AGAAGTTAAA AACTTTGAAA AAAAATTNGA CGGATNGATA ACTAGNATAA CCGATGCAGA GAAGTCCTTA
AAGG

SEQ ID NO:1477: (Length of Sequence = 338 Nucleotides)

ACAACACATA CITGAAACTG ATTATGACTG INITIGAATG CATTITGATT CCTTAGCTAT GCCTCTCAGG TGAAAGGACC AATGGCAAGA GGAAGCAGAG GATTCATGCA CIAGAAAATA CIGAGAGAGA TCAGAGTATT CIGICIACTT CACTGAAGAT ATGGTCTATT GAGGGAAAC TAATTAACAG TIGATCCAAG GAACAAAAGA ATGCTGTTAT GTGACATTTT GTTGGGAAAC TGACTGTAAT AATAATAAAN CAAATGTCCA GAGGAATGTG TCACATAATT NCAGTGTTTA TGGTTGATAA TTCAAAGGCA TAGATGAATT GCGATTCT

SEQ ID NO:1478: (Length of Sequence = 397 Nucleotides)

ACCOTITICCO ATTOTERATAR TOTEGOCATE ACTRECAGRA GCACAGOTRE GCCCARTEGE CARCOCCAGE CCAGCARART
LTCCCAGTTC ARATTEGTCC TECTEGGAGA ATCTGCAGTE GGARAGTCAR GCCTGGTALT ACGTTTTGTC ARAGGGCAGT
TCCATGRAGTA CCAGGAGAGC ACCATTGGAG CGGCCTTCCT CACCCAGTCC GTTTGTNTAG ATGACACRAC AGTGAACTTT
GAGATCTGGG ACACAGCTGG GCAGGAGGGA TATCACAGCT TAGCCCCCAT GGTACTACAG GGGTGCCCAA GCTNCAATCG

TGGGTTTACG ACATTACTAA TCAGGGAAAC CTTTTGCCCG AGCAAAGACA TGGGGTGAAG GGACTACAGC GACAGGC

SEO ID NO:1479: (Length of Sequence = 389 Nucleotides)

GCTAGAGNEC CEGCTTGCEG GETTGAETEG CCCGAGCTAA GESTGCEGAG ACCCAAGGEC GECGACTACE ACGCCETTGA
TATCGETGET AACGACGECC TCAGCAGGCE GEGAAGATGA AAGGCCEGNT CGAGCTEGGA GATGTGACAC CACACAATAT
TAANCAGTTG AAAAGATTGA NTCAGGTCAT CTTTCCAGTC AGCTACAATG ACAAGTTCTA CAAGGATGIN CTGGAGGTTG
GCGAGCTAGC AAAACTTGCC TATTTCAATG ATATINCTGT AGGTGCAGTA TGCTGTAGGG TGGATCATTC ACAGAATCAG
AAGAGACTTT ACATCATGGA CACTAGGGAT GTNTGGGCAC CTTACCGAAG CTAGGAATAG GGACTAAAT

SEO ID NO:1480: (Length of Sequence = 384 Nucleotides)

CTGAGAGCCA GGAGCTCTTG CGGAGAAGCC ACTGTCTGCA CGCCACCTGC TTCGATGACC CTGCTCTGCC ATCCCTGTGC
TCCAAGGGCC GGGCCCTGCC GTTGCCTGTG CCAGACGGGT CTCAGGGAGA TGCCGGCCAG CAGGTATGCA TGGCGAGGCC
TGGGCATCAA GGCCCGGATT CTATGGCTGC CAGTTTCATT CTCTCGTTGT TTGTCCCCCT AGCAAGACTT ATGAGGTTCC
TTGAGGACAA GACTCCCTCC TGCCACCTGG TCTGTTTCCT GAACATTCAC TGCACTAGCA CGGNCCCGGG ACGCAGNCCT
TGGGAATCAG GCCGTCGGCC ATGGTAGAGC GGCTNGCACT GCTCGGCACC GTGACGGACG TTTG

SEO ID NO:1481: (Length of Sequence = 257 Nucleotides)

ATGTCTAGAG CTATTCTGTT TTCCCAAGCC ATTTGGCTAG TAGGCCCTAA TTGGTCAGTG GGTTCTGACC CCCCAATCCC
TACCTCAGCA GCAGGAAAGG GAAGTGCTGG TCTCCACCTG TNCCCACTAA GGCCCCGTGG TATCCTGGCA GAAGCCTCTG
CATGTATCTN CGCTCTGAGG ATGGGGGTTT NAAAACAAAA TAAGACCCTA CGTCCTACTA CCTTGAGCTT GGCTCTAAAA
CCACGGGAAA GGAAGAG

SEO ID NO:1482: (Length of Sequence = 345 Mucleotides)

AATTGAGCTC AGACTAAAGG AATTCITTIT TGACTAAATA GIGATTAAGT TATGATATIC CIGITGGCCT AAGAACAATG
CCTATGATTT AGTTGTGTA TGTATATTIG TACTTATAAC CAAACAATCG ATTGGGTACA AGTAGCCTTA GGGCAATACT
TCCTTAAAAA CATGTTTCTG ATAAACTAAA GCTTTAGCAT TAACCAGAAG TCATAATTTA ATAGTATTGT AAAAATACCT
CATTTATTTT AAATCCTGTG TTGGGGTAGA GGATTACAGT TGTCATTTCA AATACATGAA TCTCTTGTCA AAAGNGGTAC
TTTGACAGTT TCATGGGAGG TCAGG

SEO ID NO:1483: (Length of Sequence = 344 Nucleotides)

CTGATGTACT GTTTAATAT GCTGAGTACT GTTGATTCAA CAACAAACCT TAATGGGTGA TGAGCTTTTG CATACCAATA
TGAATTINTC AGCACTTCTG AAAACTGGCC ATCATTTTNC AAATTCACAA TTTGCTGGAT GTCAGGGAAC AATAGGAAGA
AGAATGAGCG TCAATTTTCA TGTCTTCCTT TGCTTCTTCA CTGGCCTTCC ATAGAAGTAG TCAGAAAAAA ACAAAGCACC
ATCAACCACA CTTCACAAAC AATTCATGTT GGCCTAAGCT TTGCTCAACA TTCATATGAC AGAAGGTAGN ATAATGAAAA
GGGACTGCTG GGCATCACTT TCCC

SEO ID NO:1484: (Length of Sequence = 380 Nucleotides)

TTCCTAAAAG CAGTCTTCC TACAACTIGT ATGCAGTAAG TCACTTAAGC ACTTAAGTGT CATATGGGTA CITACATGGA
ATTAGAGCAC TTCCTGAATG GAATTAGAAA AAGGCAAATT GTGCATECTA. CYGATGCATT CATTTCCTAC AGAGATATGA
TACCAAGGGC CAATAAGTGA ATAGAAAAAG GGAGGAGGAT TTATTAATGG AATGAGTTCT AACCCTGTCT CITACCAGCC
ATATGACTTT GGGNTAAATA ATCAAACGCC CAATGAGCTC AACTGTCTAT TATTAGGGGA ATTTAAATGA GAGAATGCAC
ATTAATTATG CATTGCAGAG TACATGGGAA AATAGTAAAA GCTTAATATT TAATACGGTC

SEO ID NO:1485: (Length of Sequence = 334 Nucleotides)

GAAGGAGCGG GGAACCAGTT TCTCACTCTC CTCCCACTTG CTATTGTCAG AAGAGCGAGA TTTCAGGGCA GCAGAGAGCA
TCAGGAGATC AAAAGAAGAC ACTGCTGGGT GGTCCCTTAG CAAGTTTTAG CTTCTTTINCC TGCTGGGAGA GTATTCCTTG
GGCACAGTGC CAAGTGTCTC TAAGAAACTA GTCATGCCTG ANCTTAAGGG CTCGCGGATT CTGGGTGGTG GATTTCCTTA
GGCTTGTCTG AGCCTGCCAG TGCTCTCCTC TGTCGCTCTG ATTTCCATTC ACGCTGAGCA GTCTGCACTN CCTTGGACAG
ACCCACTGGC ATTT

SEO ID NO:1486: (Length of Sequence = 164 Nucleotides)

CTGAAACGGA AAGATGGCGC TGCTGTNCTT CTAAGCCTAG GCTTCTTGCA CTAAAGCACC AAGGGCATCG CACACAGGCT TGGCAGAGGG GCCATGGCCA GANTCACCAC CTTCAGACAA GTATGTTGGA GGTCTCGAAT CCCTTGGCAC CCCCAAGCAT GCAG

SEO ID NO:1487: (Length of Sequence = 298 Nucleotides)

TTGAACCCAG GGGGCAGAGA TTGCAGTGAG CCGAGATCGT NCTGCTGTAC TCCAGCCTGG GCAACAGAGC GAGACTCCAT
TTCAAAAAACG AGAACCCAGA GGGCTCACTT GCCCCTTCCA CCACACAGTG AGAAGGCACC ATCTATGAGC CAGGAAGCGG
GCCCTCACCT AACAGGATCT NCTGGGCCTT GACCCAGGNC TTTACAACTT CTAGANCCAT GAAAAATTTC TGTTGTTCCT
AGCAGNCCAA ACAGAATTAG AACCATTAAT TTCTATTTCT CCTTTAGCTT AACACTGG

SEO ID NO:1488: (Length of Sequence = 343 Nucleotides)

TIGCTAGTIC AGENTCAATG TCATGGCTGI AACTAATATA GIACATTCGG CAGITGCAAC GCGAAATGAT CCGCTGGACT
TGCTGGGCTT GCTGTGCCTC ANCIGGCTGG TTCCAATCTG TGGTTGTGGT AACCATGCCG CCCACTGCCT GCCCACTCTC
CATCAGCTCC TGCACAGAGT CCAGACTACG CTGCCGGTGC TCGCTCTTTT GCCCAGGTTG AAGTGCAGTG GCCCAATCTC
AGCTCACTGC AACCTCCGCC TNCCGGGTTC AAGCAATTNT CCCCACCTCA GCCTINCGAG TAGCTGGGAT GACAGGCGGC
CGCCACAAACG GCCAACTAAT TTT

SEO ID NO:1489: (Length of Sequence = 412 Nucleotides)

ATTACCTTTT TATAACCCAA GANTGCCATT ATTACACCCG GAACCCTCAC CAAATAAGTA GGAAAACTAC ACTGAGAACA
ATTCGGCCCA GCTGTCTCTG GCCCATTTCC CTTTCTACCG CCTCTTGTGC ATTCCAGCAA TCTAACTCGA TGAATGATCT
TCCAGTTGGA AAGATGGGGA CTTCACAATG TGCAGACCCA AAGATCTGTC TTCCAAAGGC CAATCACCAC TGTATCCTTC
GTTCCTTTAA ATGTCGTTGT TTATTTGAAT ATATTAAGGA ATAATATCAA GGGTAATTAT CTATGTATAA AATGTATGNT
TAATTTTTTTA GGGGACCATC ATACTGTTTT TCCACAGTGG CTGTACATTT TACAATTCCC ACCAACAATG CACAGGGTTC
CATGGTTCCT AT

SEO ID NO:1490: (Length of Sequence = 356 Nucleotides)

ATACCTICIT TCATTTAAGC CACCAGTCT ATGGTACTIC GITATGGCAG CCTTAGCAAA CTAATACGGA TICCICATCA GGTTCAGATT TINCTAAATA AAATGTGTIT GTGAGGGTGG TACAAGCAAC AGTGATATAT TICTITAAGT ATTTTCCCCC AGCCAAATTC CAACAAGACA ATAATGTCTA ATGCACTGTC TGGTGAATCG GAAAATCTCC TGAATGAAAT AAGAGCCTCT AATACCCCAAA AGGGAATGAA GTGAGTCATC ACCACAGCCT GTGAATGAAA ATAACTGCTC TGAGGAAAAC ACATGTAAAA AATGACACCA TGTGGATTAA ATGACGCAAC ACAGT

SEO ID NO:1491: (Length of Sequence = 335 Nucleotides)

TTCACTACCA AAACCAGTTA CAACAGTTCC AGCCAAATAA CACAGGCTAC CCCATATGCC ACGACACAGA TCTTGCATTC CAACAGCATA CATGANTTGG CTGTCGGTCT GCCTGATCCN CAATGGAAAA GCTCAATTCA GCAAAAAACA GATCTGNTGG GATTTGGTTA TTCTCTACCT GATCAGAACA AAGGTAACAN TGCCTTACTT TACATTCCTG ACTACCGNIT GGCTGAGGGA TTGTNTAATA GAATGCCACA NAACCAGTCT NAGGATTTTA GCANCCACCA GCTCTNACAA CAGCTCAGGA AGGAGTTGGC AGINTCTCAG GTGGG

SEO ID NO:1492: (Length of Sequence = 321 Nucleotides)

GACTICATAA AACATCCITT ACTATATITI NAAAGAAAGC AGAAGTAACA GCAATATATG TAAAAGTAAT GNITTAATGN CTATAAGCAA GNCAAAGCAA TAGAATTGIG CITCITTIGC AGACTGGGGN CAATGAAATG TITAGCTACA ATTINCCCAT ACAAACATGA AACAATATIC ATATAGNNIA ANCACCCICA CAAATAACIG ATGGGIGATG ANCACACAC AAGTICGACC AAAGCAAAAA NIAAACIGAA AATIGITGGG TGGGGITATI CATATITIAA ATTCAACATG CITGCTCIAT TTAAAAATAC

SEO ID NO:1493: (Length of Sequence = 315 Nucleotides)

GACGGAGCGA GGGGACAGAG CCCAGGGATG GAGGCGGGAT GCGGGGGACA GAGCCCAGGG ATGGAGGCGG GATGCGGGGG AGCAGCTGGT AATGTGCAGA GACTGGGAGA GGGCGGTGTC CAGGTGGAGA GTATTTCAAG GAAGAGAAGG ATTAACAGCG TCCACTGCCG CAGATGGGCC AANCNGAGAT GGGACTGGAA ACCAACCACT GCATTTAGCA TCCTGGGGNC TGCTNATAAC CTTGGTTTGA TGGCTCCTCA AGAAGAGCCA NAACCCTTNA AAGTTAGTTC AAGAGAGAAG GGGNGAAGAG ACACT

SEO ID NO:1494: (Length of Sequence = 405 Nucleotides)

AAAAGITGAC AAAACATAAA GIATCTCTAG ACAGCAAGGA AATAATTICA CGAGATTGCT AAATTGATGT CAACACCTGC
AGTCIAAAAT TIATACAGIT CAATATGTGT CATTGATCA CTGGCATGTC AAATATAGAA CAGCTATGAC TITGCTGGCC
AGTAAATTAT CIAGCAGTGA AAATCACTIT TIAGGAGAGT CGCAATCAAA CATTGTTTAA CGTGGGAGCC TATAAAGATG
CAAATTCCTG AACAACAGTG TCTAAGAAAA GTACATTGGG TCACTCTGAA CAGGTGGTAT GAACATTTGA TTTAACTGCA
AGATCTNCNG CINITTACGG GCTTTGTCAC CATCGNATGA ATCTTACATC CGCTGATGAC TNAGAGCAAG CAGGGGCGAG
CTGCC

SEO ID NO:1495: (Length of Sequence = 364 Nucleotides)

CGICTAATGA AGAGCTICGA AACTIGICIT TGICIGGCCA TGIGGGATTI GACAGCCICC CIGACCAGCI GGICAACAAG
TCIACITCIC AAGGATICIG TITCAACATC CITTGIGTIG GIGAGACAGG CATIGGCAAA TCCACGITAA TGGACACITT
GTICAACACC AAATTIGAAA GIGACCCAGC TACTCACAAT GAACCAGGIG TICGGITAAA AGCCAGAAGI TATGAGCITC
AGGAAAGCAA TGIACGGCIG AAGITAACCA TIGIIGACAC CGIGGGATIT GGAGACCAGN TAAATAAAGA TGACAGCTAT
AAGCCCNIAG TAGGNIATAT TGATGCCCAG TICGAGGNCI ACCT

SEO ID NO:1496: (Length of Sequence = 370 Nucleotides)

GICTCTIGGA GCAAGGACCC AGITATICAT CITAATICIC AGGGGAATCT CIGTAGAGAT GAAAAGCAGG AGAACCAAGG CAGCCTGGTC TCCCIGGGTG ATGAAAAACA GACTAAGAGC AGGGACTTGC CTCCAGCTGA GGAGCTTCCA GAAAAGGAGC ATGGGAAAGAAT ATCGTGCCAC CTGAGAGAAG ACATTGCCCA GATTCCTACA TGTGCAGAAG CTGGTGAACA GGAGGGCAGG CTACAAAGGAA AGCAGAAAAAA TNCCACAGAA GGAGGCGGC ACATCTNCCA TGAATNTGGA AAGAGTTTTN CTCAAAGCTC AGGCCTTAGT AAACACAGGA GNATNCACAC TGGTGAGAAA CCCTACGGAT

SEQ ID NO:1497: (Length of Sequence = 376 Nucleotides)

CACACACATA CAAAATCTGT CCATTTGCCG GAGNAATNIG TATGTATGIN AGTTGGAGGG TATTAAAAAT CAGITTTATT
CCAAAGATTT AAAACTAGAC ATGACTTAAA AACAATTTCT GGAGCACTGC TTGCTGACAA TCTCGTAGTT CTCTGCTGCA
TTTGAGTGCA TTTTGTGGCC AGTCCATCAG GGCGTACCAT GGGATTATAT TTGAATGTGT GGTGCATCCT TCCTGGATGA
AGGATGTGG AGGACCTTG AACCTCAGCT GTATTAAACT GTAGCGCCTC CAGTCAGTGC ACTAGATGAA ACTTTTAGAC
ANCCTGAATT CTGTTGGGTC CNTTCTTTTT CCTTTATGTA GGCAGNCTNC AGCATG

SEO ID NO:1498: (Length of Sequence = 281 Nucleotides)

TTTATAGGAC TICTAATCTA ATTINCCTAT AGIGIGACTA AAAGGGAGGC AAATTATIGG AACGGATTAT TCAAATGGNT CCTTAAATAT TGCTATGTAT AATAAGCCAG TTATTATATC AGGACCATGT TCTCTGTAGG CCACTGTTTT NCTCTCTCAT TCTCCAGTGG CGGCGGCGGG GAAGGCGGAG GCAGAGGCAG CAGCAGCCGC GCTGGCTGCA AATGAATGAN CCCCCAGCTT GGGGGGAGGA CTCCAGGTGA GCCTCTGCCC TCGGGAGGCC C

SEO ID NO:1499: (Length of Sequence = 395 Nucleotides)

TTTTATCACA CCCTGTTTC CAAGGGTCCT GTTACGTACC ATTCACCATT CTGCTTAGCA ATGGCTTGTG AGATGGCATT
TATTCCTTCA GCATGTATTT TNATGTTCAC CTTCCTCTCA CCTAAATTCC TCCCCCACCC CAATAACAAT TAGTTGTTCT
ATTTGCATGT AGCCAGAGCA AAAAATGATT TCTTTCCCTT AAGTTACTAT TATTATAAAA GGGACGATAA ACACATGAGT
CATTATACCA CAAGTATAGT GTGGAAAGGA CTCTAAACAT AGGCTCACTG AAGAAGGTGG CATTTGGGCC AGGGCTCAAA
ATAAGGCAGA TTCAGATTTG AACTGAATAG ATGGAGGAGT CATTTCAAAC AGAAGGAATG NCATAACATG TGGAG

SEO ID NO:1500: (Length of Sequence = 272 Nucleotides)

CTGAGTAAGN GITCCCAGTC GGICCCACTG GTCACAAATT TIMIGGCACC GATCATTGAC ATTCACAGCG TCGTGATAGT
CCAGTTCATT GAGCTCCTGC GCGATGGCTG CGATCTGCTC CACGCGGTCC TGGTGCGCTG CCAGGTCGCT CTCGAACGNC
TCGTGCTTCC GCAGCAGAGC CCGNACCTCT NINAGCGACG CCGACTCGTA ATCCTTNTGC AGCAAGATCT GCTCTTTGCC
ATAAGCCCAA GTCTCGTGCG TTGAGGCCTT CT

SEO ID NO:1501: (Length of Sequence = 394 Nucleotides)

TITITITICC TEGACCIETC ACAACCITTA TIGICCCGAG CACAGACICG CCACACITCA ACAATICCAC TEIGGGGAGG GGAGGGGIGA ATGAAGGACC TEGGGGAGG ACATGGCTGA GCCACANCCG GGCGCCCACA CGGGGGGCC TEAGAGGCCC ACATGCCCCC ACGCGCGCAGA GGAAACCGCT TCITGGACAC CCGTCACCAG GAGCCCACCT CCGGGGGCTC ACATGCTCCC GGCACCCTCC TAGATGGACC TCTGGCTGTT AGIAGACTAA TCGGTGCCCC TACCGATGGG GCAGAGCTGC CTGATTITTG CTAGAAAGAG CTGTATTTGA NCCTNGGTTA GGNCACTAAA GCATCGTTCT AGACGGCTGT TAATAGAACT NCAT

SEO ID NO:1502: (Length of Sequence = 373 Nucleotides)

GAAACAAGGC ATAATGTTGT CACAGAATCA GAGATCCAGT CTCACTTTTC CACAAATCTC CAAATCTCCA GTCTTATCTT
GTGTGCTCTA ATGGTTTGGT TCAATCCCTT TCCAACTCTT GTTTCAAAG CATGGGGCCT GAGTGTTCTC CACTCCTCCT
AAGAAAGGAG CTTGGGTGGA AGGGACCATG CTGACCTCCT CCATCAGAGG GCTCTTCCAG TAGTATTCTC GGATGCAACC
TCCATTTCTC AGTTACCATT ATTTCCTGTA TCAGCTTTGT CCTTCCTGGN GGGATGCACA GTGATCCGGG CCACCACTGT
TGTTGTCTTG TGCTTCTGCT CTTTCCTATG GTTTCAGGNT ATTTTCTGGG GTT

SPO ID NO:1503: (Length of Sequence = 265 Nucleatides)

GNCAACAGGC CAGINITIAA AGAGGGICAA GIGGAGGIGC ATATICCAGA GAATGCICCC GIAGGIACCI CIGIAATICA GCICCAIGCC ACIGAIGCAG ATATAGGCAG TAATGCIGAA ATCCGGIACA TITTITGGIGC CCAGGICGCC CCIGCAACCA AAAGACTOTT TGCTTTAAAT AATACTACTG GGCTGATTAC ANTTCAGAGG TCCTNNGATA GAGAGGAGAC AGCCATTCAC AAAGTGNCAG TGCTGGCTAG TGACGG

SEO ID NO:1504: (Length of Sequence = 311 Nucleotides)

SEO ID NO:1505: (Length of Sequence = 363 Nucleotides)

CCACTCATGG CAGAAGGGAA GGGGAGCTAG TGTGTGCAGA AATTGTATGG TGAGAGAGAA GAAACAAGAG AGAGGGAAGG
GAGATAGCAG GCTCTTTTCA ACAACCAGCT CTCATGGGAA ATCATAGAGT GAGAACTCAT TCACTACCAT GAGAATGGCA
CTAGGCCATT AATGAGGGAT TCGCCCCTAT GACCCAAATA CCTCCCATTA AGCTCTACCT CCAACACTGG AGATCACACA
TCANCATAAA ATTTGGAGGG GTCGAATATC CAAACCNTAG CAACTTGGAA CCACCAGAAG CTGGAAGAGG CAAGGAAAGA
TTTTNTCCTA GAGGCTTCAG AATAAGGTAT TGCAATTCTG AAA

SEO ID NO:1506: (Length of Sequence = 177 Nucleotides)

CGGACAGAGC AGGCAGAAA AATGAGGGAA GGATGACAGA AGCTCATCAG AAAGCCAGTA ATACATAAGA TTAGTTTTNT
CAGCAAAACC TNGTAAACTT TGACGTTAAA AGACAAATAT TTTGATCTCT CATTCCCACT CTCAAAAAGG TTTCTAGTTC
ATATTGTTTT GCTAAAA

SEO ID NO:1507: (Length of Sequence = 345 Nucleotides)

CTTGCTTGAT TTTCCCCTGT GTGTCAGAGA ATGTGCACAT TGAAAGAGAG GGAGCTCTCC ATCACCAAGA GAGCCCAAAA
ATAGCCCAAC TGATCATAGC CGTTGTAAAA ATATTCATGG ATGTAAGGAA AGATCCTTTC CCAGTCTGAT GCTCCTTGAC
TTGTGATTTG CTAAATTTGA GAAGCCATCA CTTACACAAC CTGTTTTATA GACAAATCCT TCCAGTTTCA GAAGAAAAAA
TGTCATCTAT CTCL:::CCTCC ATCTCTTTTT CAAACTTCGA TAGATGAGAA GAAAATGGTG AAATAAATTT TTTAGAATCA
GTTTTGCAAG ATTGGTTTC AAGGA

SEO ID NO:1508: (Length of Sequence = 326 Nucleotides)

AGTIGGATIT CAGCIACTCA GAGIAATIGG AAAAGGCCAC AGCCIGGIGG GCITCACAGC TITCAGAGAC CIGGIAGGGG
ATGGCIAACA GGITCINCIG CCAGGAGACA AGTGGCAGAC CCAGGIGIGA AACTITIACA GGICCCACCA AGCCITICIT
ATGGAGCACA GAGCATAAGG ACAACTICIG CAGAAATGGA ATGGGGIACT TGGAACCAAA AATACATACA CCICCITICC
CACCIGCCIC CAGCITAGIA GCCCATAGIC CICTITGICC CICACACIGA GCCAGGGCCI GNCITAGAIG ATGAAATGCA
TGGCCI

SEO ID NO:1509: (Length of Sequence = 329 Nucleotides)

AGTATGGGTC CCTTGGTACT ACTCAAGGTT TACAATATTG CATTAAACAC ATTGAAAAAT ACACGAGAAC CTTGAGGGAT CACATTTTAC TGCAATATGT GATTTCCTGG TGAGGCTCCT TGTGCAGAGA TGATTAGCTC ACAGAGCGTT GTAAGCACGT ALTCGCAACA CCTGAGCATG CCGCAATGGC AACAGGAGGT ATCTTCACAA TTATGATGGI AGTACAGTAT GTACTGCAGT TGTTTACACA GTTATGATTT AGTACTACAT CTTTTACANTT GCNTATTTNC TTNCTATTTT GAATGGTATG TACTGTCTGT GTGTACATA

SEO ID NO:1510: (Length of Sequence = 247 Nucleotides)

TAGGAAAGAG TAAGANCTTC TTTNCAGGCT GGAGGTGCTC GTATGGTGGG ACAGGAAAGG GGAAAAGAGA AAGGGGCAAC ATGGCAGACA TACCACGGTT CCTACAGAGA TTAGGGGCAG CCCTGGCCCG GGAAGTACAC AGGGCAGAGA GCTGACTCTC AGGCCAGGAA GGAGTTTAGC TCTNACCCAT CCTCANGGAC CACGGCTCTC CCCCAGCCTC AGCTGACACA CACACAAAGG AGGCTTTT

SEO ID NO:1511: (Length of Sequence = 369 Nucleotides)

CCACTTOCTC CTTTATTAAC TGINCITCCT GTAGTGTGA TTTGGGATCC ACTGGGAATC ATAGAAAGGA ATCAGTGCTA
GENTCTGTTG GGATTGCACC CTGAGGGATG TGGCTTTGGC TTCTCTATCA ACCTTTCTGT TCCCTTGTGC TATAGGAGTT
AAGTCCCTTT NATGCCCCCT ACAGTGGATT ATAGCTATGG CCTGTGGCAG GTGTATTGTT TACAATAGCT GAAGAATTTC
AGGCCCATGC TTTATGGGGG AGGGTTTINC TAGCTAGTAG TCCCCTTTCT TTCTAGATTG CAGCATAAGC GTGAACCNCC
AAGGAATGCC ATATTTTAGA ATCCTGTNAT AGGATGGTTA AGGCTTTTT

SEO ID NO:1512: (Length of Sequence = 236 Mucleotides)

ATGCATTAAG AAAAGACAGC CAAATGACAG ACTGATAAAA TATTITCATT ACAAAATTGG TIGAGAACTA CCGTGTGACG
TAAATGAAGT TICTATTACA CATGTACTAA CAGAGACTIT TCATTACATA TICTAGGATA TATTTAAAAT ATATGTATAT
TITGATATTA AGGGAATATA TITTGTTGTC ATTTTACAAT GTGTAACTAC ATATATATTA NGGCCTTTCC AATAAA

SEO ID NO:1513: (Length of Sequence = 408 Nucleotides)

CATTAATATT CTCAGTGTTG GAAATATTIT NATATTGCCA AGACCATAAT GTGAGGNGTG CAGCTGCATA ANYCCCTGAG
AGAAGATTAG TGGGGCTAGC ACCTTACAAG GAAAGACAAG CTTGTTGGCT GGGCCCAAGG ACAGTCAAAT GTCTGCCTGA
CAATCTCCAC ACAGAAGGGT TGCTCAGATC ACTTAGGACA CCCAGAAAGA GCTCACAAAG GGCAAACAAC CTAAGGCTGN
TATTCTCCAT CTAGCGGTAC TTACCTGGGA ACTGAGTGGC AGTGGACAGG AAGCAGGGCC TGGGCTAGGG AGACCCTCAG
GAGGAANGGG GACCCAAGAA GTTAGAAGTC CATTCATTCA TATACTCATT CATTCAGCAA ACATGCGCTT GACACCTTCT
GTTATGCT

SEO ID NO:1514: (Length of Sequence = 359 Nucleotides)

TINNOCAGGO TIGITOTOANA CITOTIGGOT CANGINATOC GIOCACCITIG GOTTOCOANA GINOTAGGAT TACAGGOATG
AGCCACTIGIN COTGGOTAGA ANATININITI TINANAGINA GGATGIAGAA TINOCITAGOT ATGIAGGOAN GGCAGGAGGA
GAGGGGGCCCCA GITGGGGAAGC ATAGCCCCACA AGAGTATGAG GGCOTGANCO AGGATGGTGG CAACAGGGAT GGAGAGGAAG
GCGTGCCAGG GCATGGTGGC TOACACCITIA TAATOCTAGC ACTITIGAGAG GCTGAGGGAG GAGGATCATT TINAGCCCAA
AAGTTAGAGA CCAGCCTGGG GNAACATAGT TAAGGACAC

SEQ ID NO:1515: (Length of Sequence = 343 Nucleotides)

GAGCCCCTTG ATGGCAAGAN CTGACCCTTC CATCCTGGAG AAGAGGAGAC CAATTINATA TTATGGAGGC AGAATATACA
GGACTGTGTG ACTAATTCGA CATGTGTGTC CATGGAGCTT GAAGGGGACA GAACCACAGG TGCAAAACTG GTGTAGGTAG
TGCTGGCCAT TGCTCAGAAC TTTGTGTGAG TTGAGCCCAG GCCTCTGGTT GCAGGACTCG TGAATGGAGC AGTTCTGAGA
ACCACCCTTT TGCTAAGGGA GCTTNGGAGC CACATGGCTG CTCCCTTCAC ACTGGGTAAC AGTGTAGTAT CCTGTGAGAG
AATAAACGTA TTCATTTAAA AAG

SEO ID NO:1516: (Length of Sequence = 380 Nucleotides)

TITTGCCTTA TICTATCCGA TITTTTCCCT AAGCTTCTAC CIGGNATTIN CCTTTGGAAA AGTCTCTGAG GTTCCACCAA
AATATGGAAC TINATTTTGG ACACTTTGAC GAAAGAGATA AGACATCCAG GAACATGCGA GGCTCCCGGA TGAATGGNTT
GCCTAGCCCC ACTCACAGCG CCCACTGTAG CITCTACCGA ACCAGAACCT TGCAGGCACT GAGGTAATGA GAAGAAAGCC
AAGAAGGTAC GTTTCTACCG CAATGGGGAC CGCTACTTCA AGGGGATTGT GTACGCTGTG TCCTCTGACC GTTTTCGCAG
CTTTNACGCC TTGCTGGCTG ANCTGACGNG ATCTCTNTCT GACAACATCA ACCTGCCTCA

SEO ID NO:1517: (Length of Sequence = 411 Nucleotides)

TGAGCAAAAC ACAGAGGACT GCACCTCTAG TGGCTCGTAA TGAGAAAGAA GATGGTCTCA AACCTGAGAA AGATAATGTG
GAGTGGACCT CTGTTGTCTC AGTATTAACA GTCCCTTCTA GGAAGTAGGT AGCATTTCTG AAAATAGAGT GAAGCAATTG
ACTGATGGAT TTAATCTTTA AACTGCTTAG GTAACCATCA ATCTGTAATG AGCTTAATAC TCTTAACTAG GTGCTATTTT
NCATGTGTGC TACTTTGCCA GTGATAAAGG ATTACGAAAA ATTCTTTACC AGAGGAAAAA AAAAAATTGA ATGACCTTTC
TTGGGAAGGT GGTCCCTTGT TTGTGATCAA ACTTTGACAA GAACTGGTAA TTAATTTCCT CTAAGGAATT NACCGTTCTC
ATAGTGTGTT T

SEO ID NO:1518: (Length of Sequence = 388 Nucleotides)

GGTGGGCAGC TTCTCTCTGC AGCTGCTCTC CCATCATCTG GCTGAATATG GGGCTTTNAT GGGCCTCAGG GGAGGAAGTG
TGTGCNAAAT GGTCCGTGGG CAAACATGGG CGGGCCTGGA AAAGGCACCA CAAGTTCCCA CCCCAGTCAG TAGGATCAGC
AGTCTGACAC CCAGGCTTCA GGCCCTCCCC GACTTGAAGG TGGTGCTTCA CCAAGGACTC ACCCACTCCT GCCCAGGAGC
TTGTNTGCCT CCTGCTGCCA TTTATGGTGC CCAGGCTGTT TGTNCCAAGG AGTGTCTGTG GGCCAGCNCT GAGCTGCCCT
CAGGCACCCCC TTGGCCTCTT TTCTGTNCTC ATTGGTGCCC AAAGTCCGCA GCAGGCTGAA GTGGCAGG

SEO ID NO:1519: (Length of Sequence = 358 Nucleotides)

TIGGITAAGA CCAAAGICAG ATCACICCCT CCTAGCICCA AACCIGCAGI GGCICCCAAT TCINICAGCA TACAAACCCA GAICCTCAGG CIGCCATTIN TGGGCIGAAT CCIGICCCIG CIGICIGATC CCACCAGACA TAAIGGAGGC CIGAGGITCC CIGAACACIC CTAGITTAGC CITAAGITAA GIATITIGCAC AIGCIGGITC CIATGCCIGA GAIAAIGITC CACATTINAT CCCATTGCIT GCCAGAAATA GAAACCCTIC CACATTAATIN CAAAACAGAG TITACANCAC AGAGCITIGG GIGACIGCAG GCCTCCAAGA ANGGNAGGCA GAAGGGCAC TGAAGAGT

SEO ID NO:1520: (Length of Sequence = 379 Nucleotides)

CCAGAGITAA ATATGCCCAG GCTGAAAGAA GGTGTATAAT GTATGGACTI NCTTATACCA AATGATTTCT TTGGAATTTA
AACAAATATG TITAGTATTT TATTCCTAAT TTAGGAAGAA AAAGCAACTA AAGTTGTNCT GACATTGTAC ACAGATGAGT
AGCACGTAAC TITTATTTAG TAAGCCCCAT AGGATAGTAN GCNATAAAAG TTGTTAGTGA GCAAAACAGG AGTATCCTGC
CATTTGCTTT AATTCTNCTT GTGATAGTTT TGAGGGTACA ATAATTCCTG TGTGCGTGTC ACTCAAGCAA ACCAGAAAGT
GTCTTTTGTA AATACGCATT TTGGGCCTCA TCCTCATGGA GGTTCCCGTT GTTTGTTGG

SEO ID NO:1521: (Length of Sequence = 339 Nucleotides)

GGGACAGGAA GCCTCTTGGG TTGGACTCAG ACTCAGGAGG TGACTCAAGC CTCAAGCTCA GAAGCCCTCT GINACCATCT
GTTGACTCAG AAGCATGCCC ACCATCCCAT GCAGTGCCCT TCCAGGCACT GTCCTGTAGC AGACGGAGTT CAGGCTTTGG
AAGTAGACAG ACCTGGGTTC AAATCACAGC TCCGCTTCTT CCGCCTGAAG CTCCATAACC TAGGATAAAG TCGCTAAGCC
TMCCCAAGTC TCAGATTTCT TACCTCTAAG GTGAANGGAT TGGATTCCAC TTTACTTCCC CCCTTTTCCC TTTAMESEACT
CTGCATCCTC NTTTGCTTG

SEO ID NO:1522: (Length of Sequence = 405 Mucleotides)

GIGAATTICA AGCAATTGIT AATGGGGACC AACAGGGCTG CATTAAGAAA ACCACTITINI ACTGATCICT CCCCCACATA
TITITAATTI GICITGCITT GITTATTITG GITAGCAAG TCCTTTCTCT TCATGAAACA AGTGIAAGGC TCTAAGGCTA
AAATAATAGT TATTITTGIG GGCCCCAAAT AGCTACTTIT GAATTICTIT CTTTAGTATA TCTCAAATCT GGGGAACATG
GAACTIGAAG ACTCCTAACC ATGAAGCATT TGGAAAAATA CATATCATTC ACTITTCACA GAACCATTTT CTTAAAAATA
AGGGGGCCAAT ATCCAGATTC ACATGCATGI TCATAAAATAA AGCTTTGGIT TTAAAAACAAA TCCACACCAG CAATTATTTT
CAGCT

SEQ ID NO:1523: (Length of Sequence = 284 Nucleotides)

AGNICACAGA ACTOCAATTO TITATTAATO ACAGCITGOT CACAATGACA TACAGGAAAA TAGCACTAAT GAAGNGTAAA
TATGCAGGCA GCAACCITCA GGAGITGGGA GITGGGGAGA AACCNCITCA AAACTGCGAT AGGTACTTAT GGTGGGTATO
TGGTGATTOT NAGTTGGCAC AAATGCCCTG CCTAGCCCCC TTAACTGCGT CACTTTCACA GATGGNGTGT TTTGTTGTTG
GTGTTGTTAG TAGGCAGGAT TGCCTTACAC TGGGGAAGAA AGAC

SEO ID NO:1524: (Length of Sequence = 299 Nucleotides)

GIGCTIGIAC GIGACAGITT IGICIGATCA CATTITAGGA AGAIGATGCT GITCTINCIT CITAAGIATI TATTITINATC AGICAAGIGA TAGGAAGITC AATTICAAGI ACAAGACATT IGGATCAAGA AGIGACIATT ATTITATITAT TINAGAIGGA GICITGCICCI GITGCCCCAAG CIGGAGIGCA GIGGIGIGAT CICAGCICAC IGCAACITCC ICCICCIGGG TICAAGCAAT TCCNCIGCCT CAGACTCCCG AGIAGCIGGA ATTITACAGGC ACCCACCGGG ACCAGIGAA

SEQ ID NO:1525: (Length of Sequence = 398 Nucleotides)

GCCCATGAAG CAGCTCTCGT GGATTGGAGT CTCATGCCTG CAGCTCTCCC ATACTGGAGT TGCATGCTGG TGGTCCTACA
GTGCTGGTGT CTGGGCAGTG GCCTCACTCC CATGGCTCCA GGAGGCATTG CCCTGGTGAG GGATCTCTGT GGTGGCTCTG
TCCCTGTNAC AAGTTTCTGC CTGGGCTTCC AGGCTGTCCA TGATATCCTT TGAAATCTAA TTGGAGGCTG GCATGACCCC
ATGGCTTCCA CACTCTGTGC ACCTGCAGAA TCAGCACCAT GTGGACACTG CCAAGACCTA CCTACCACTT GTGCTCTCTG
GAGCAGCAGC ACAAGCTACA TCTGGGGCTG CTTGAGCCAT GGCTGGGGCT NCCAAGGAGC AGAGTCCTGA GGGTGGCC

SEO ID NO:1526: (Length of Sequence = 318 Nucleotides)

GTCTCTCTCT ACTGCACCAT GATGCCTTTA AAAAGAATCT AGGGGCTGGG CACAGTGGCT CACGCCINIA ACCCAGCACT
TTGGGAGGAG TTCACTTGAG CTCAGGAGCT CGAGACCAGC CTAGGCAACA TAGTGAGACC CCCGINTCCA CTAAAAATGA
AAGCAAATTA GCTGGGTATG GTGGTCCATG TCTGTACTGT GGTCTAAGCT ACTCGGGAAG TTGAAGCAGG AGGNTCACTT
GAGCCCAGAA GGTCAAGGCT GTAGTGAGCC ATGATINTGC CACTGCATTC CAGCCTGGGC AACACAGINA GACCCTGT

SEO ID NO:1527: (Length of Sequence = 313 Nucleotides)

TIGGCIAGAA GGGAGGCIGG AGCCITICAT GGIGGCITIT GAATGCCATG GIGAATAGIT TGICCITTAT TIGINATIGA ATAGCAATTI GIACACITCI GAGCIATIAG AGIGAAATGA TIAAGCCIGI GGITIAGGAA GAAAGAGCCI ATTAGGGAGA TAAATCITIC CCIAGITGIA GGAAGGGITG GAACAGTATG ATATGGAGAG GGIAGIAATG AATGANGGAA INGAAAACGA GAATAATTIC AATGATACTG GAGGIGCAGT ATACAAGTIG NGCAGTAGGT TIATGICTAG GAAGATAAGA AGT

SEG ID NO:1528: (Leigth of Sequence = 405 Mucleotides)

GCCGTCGCTA CCGCCACCGC CACCGCCACC GCCGCCGAGT GCTGTCTCTA TGGCGAGGGG GAGGAGGAGG AGCGCGAGTC AGCGACACAA GTACATAAAT AAAGGATAAA ATATTTTATG AAACAAATCT TCAATCAAGT ATAACATTTT GATGCTTGGC

ATCTAGACTC CCTTGTGCCC TCACTATGCC AGCGGAACTG TAGATCATAG CCAAAGAATT TGTGAAGTTT GGGCTTGCAA CTTGGATGAA GAGATGAAGA AAATTCGTCA AGTTATCCGA AAATATAATT ACGTTGCTAT GGACACCGAG TTTCCAGGTG TGGTTGCAAG ACCCATTGGA GAATTCAGGA GCAATNCTGA CTATCAATAC CAACTATTTC GGTGTAATGT AGACTTGTTA AAGAT

SEO ID NO:1529: (Length of Sequence = 241 Nucleotides)

GAAGGAGAAA CACTICITEC CICCATAATI CAGACAGIAA ACTGATCGCI GAGATIGAAG ITIGCITGIT TCCIGGGGAA GCIINAAGAI CCICGIGGGA CCACCATCCC CIGCICAGIC CICCCIGGAA GGGGGCACIG GCIGGGIATG AGCCGCGICA CCGIIGGGII TGIAACITIN TGGATGGIGC CIGGNITICA CCIGGGGCIG GCIGAGGAAA GGGGAGGCGG TAGGNGICIG C

SEO ID NO:1530: (Length of Sequence = 356 Nucleotides)

GETCTCATGC AAGGGTTTCC CATGCCTGTA AGTGTGTTTG TAATCCCACA TGTATCAGGT GCCTGGCTGC TCTGGGACTT
GCAGTAATTG TCTCTTGTTT GTTTCAGGTG TGATCCCCTG GGCCCGTTTG TTGTCGGGGG AGAAGACTTA GACCCTTTTG
GGTGAGTACT GCTGGGGAGG TGGCAGCAAC ACAACTTGCT TTTNTGGCTT TTNAGCCCCCA GCTCATCTTC TAATTTNAGA
GTTTTCGGTC AGTCTCTTCC TTTGGGNGTN GAGGAGGCAG TTGTTTGCTG AGCAGCTGAG AAAGCACTGC CACATACGCT
GGCCCCTCCA CACCTAGAGC GGTGCAGGAG AGCACT

SEO ID NO:1531: (Length of Sequence = 379 Nucleotides)

CCAACAGATG CIGCTACGIT TCCITCAAAA TIGITAAACA TCTCITGCGG AAGAAGCTGC TTAGITATAT CCAGCGATTG
GTTCAAATCC ACGITGATAC AATGAAGGGT GGGGTATCTA GCAGGATGIC TAGITCACGC ACTGGGTGAA AAACAACCAG
AGCTGCAGAT AAGTGAACGA GATGTTCTCT GTGTTCAGAT TGCTGGACTT TGTCATGATC TCGGTCATGG GCCATTTTCT
CACATGTTTG ATGGACGATT TTATTCCACT TGCTCGCCCG GAGGTGAAAT GGACGCATGA ACAAGGCTCA GTTATGATGT
TTGAGCACCT TATTTAATTC TAATGGGATT AAGCCTGTCA TGGAACAATA TGGGTCTCA

SEO ID NO:1532: (Length of Sequence = 307 Nucleotides)

GATAAACTIG AGCCACCAAG AAGIGGACIC IGCCIAGGAA GACAGITIGC IGAAGITAGA AAGIACIGGI CIAGGAACCA GAAAACCIGA ITCINCCCAA GAGITAGAAT IGINAGINAG ITCINCIGG ITIINAGIIT CCITATCIGI AAAATAAITA CCCAGITCAA IIGGATAATC ICIATGATCC CITCCACATI CIGCATACII GGATATCIAC IGIITICIAAA TAITIIIGGCA ITICIIATAA AGCCCIITCA CATTINCIIT AITATIITIC CCICACAAGA ATICCIGAAA TAGGATA

SEO ID NO:1533: (Length of Sequence = 337 Nucleotides)

ATGCTITAT TIGCIGATIG AGAAGIGGIC CAGCOGIGGG CTAGCAGICA TITACATATC AGIGACCAAA TGCAAACATA CCCGIACTAA CAGIGCTITIG GICCATGACA TACCCTITIG ACAGCCCAAA GCTGAAACGI CAACICITATC TGGGGITACT TGCTITATACA AAGATGITAC TCTAGCAATT GITGCTIGAG GGCAAGACCN GATGATTGIC ACTAGTAGGA AGAAAGCAGA AGIGATGCAG CTTACACIGC ATAGTCCCTA CCCTINIGGA TTAAATGGAA AAGITGCTCA AACATAAACT TGTTCTTAAC AAAGGTGGGI AAGANIC

SEO ID NO:1534: (Length of Sequence = 317 Nucleotides)

ATGGCATGT GGGTACTACG TITAAATATT TAATTATTIT AAAAATAAAA TAGGAAAGAT AAAATAGCTT AAAGTGTATT GATGCTCTGA ATAACTTTAT GAGTGAATAG ATACTGAAAT TIGAAGTCAG TGTTTTGCAC AACAAATCAA GATTTGGGAC TGGACTTACT GGGTTGGGGA CTTCTTAGGG ATAACGGTGG TGCTATGAGC ATGCTGGAAA GATGAGAAGC AAAAGCCTGG

AATTGGGAGT CCTGTACTGT CTTTAGGGTA TGCAAAGAGG CTCCTTCTTT TCTAGGTGTT CATCAGTACA ATATGAC

SEO ID NO:1535: (Length of Sequence = 323 Nucleotides)

ATATTACATT GATGICAGIC TITAAAGATG GAGTAGGACT TINCAGGCAG CAACGAAAGG GAAGGACATT TCAGAAGCAG
AAATACCATT TGITAAGGGA TGACAGCCAA GAAATATTAA AGCATATTTG GAAAGTATTG AAAATCTCTG TGIGGCTAGA
ACTITAGATG AAGAATCAGA TACATCTGGA GAAGGAGATT NAACCNGATG ATCATAAAGA ACATTITATT TAGGCCATGG
TAAGGCTTGG GCACINIGGA GCCCATGAAG GITTITGGAC AAGGGAGITT CCTTAGGGAG GAGTATNAAG CCATAAACCA
AAT

SEQ ID NO:1536: (Length of Sequence = 305 Nucleotides)

AACCACATIT TTACTGCATC TNCTCCACGC TGGATTCCAA CATGCTGGCC CGGAGCGTGG CTGGCTGGAA GCAACTCCAA CAGGTTTTTC CCTTCCCCGT CATGTACATT ATTTATTTTT GATCCTACTC ACTGTCCCAA GTCCAGAGGC AGTTACAAAA AACACTCTTG ATGCAAAACCG TGAGTGGCTA CAACACACGG ATGGGGGTGG GCGCGATTCC CACAACAGGG AGTGGAATCC GGGGAAGATG ATATATAGGG GCAAGACGGC CCCTTACTTT GCTAAGAGTA TATGGGAGCT CAAAA

SEO ID NO:1537: (Length of Sequence = 279 Nucleotides)

GGTGGCAGCG GCGGCGCGC GACTGAAGCG CGCGAAAAGC TGAGGCGGCA ACGTCGGGGA CGGCTGCNCG GGACGGCTCT
GTAGGAAGGA ACTTGGTTCC CCCTCCCTCA GCTTCCGCCC CAAAAGATTC AGAATGGACA GTTTAGAAGA ACCTCAGAAA
AAAGTCTTTA AGGCTCGAAA AACGATGAGA GTNAGTNATC GTCAGCAACT TGAAGCAGTG TACAAGGTCA AAGAAGAACT
MTTGAAAAACT TGATGTCAAG CTGTTAAATN GCAACCATG

SEQ ID NO:1538: (Length of Sequence = 310 Nucleotides)

ATATTTCCTT CIGCTCTGAC TCCGGAAGAA CITGCACTGT TGCCTAGGCT GATAATCCCC GAAAAAAAGT AACAAATGCA ATTNIACCCC CCACCCCCAT ATACAGCCCT CATATATATA TATGAGAGAG AGAGAGGAAA AGATCATGAG ACATGTCTTC TAGGGAAAAA AAATTCTAAC TTCCCTAGCC ACTGTAGTCA TTTGAAACCT GAGTTAGACT ATGAGTTAGG AAGTATTTTC ATAGAGTTCA ATTAATATAT TTCTGCTCTA TGCATGGATG CTAACAGGTT TAAGGAAACA CAAAAGCCAA

SEO ID NO:1539: (Length of Sequence = 267 Mucleotides)

GAGATITIAC TITGIAATCG AGIAATITAG CCACACTCIT GIGAGGGAAC AAGCCAGAGC CAGGACCGCA TATIACCCGG
TAAAGCTGCA GAGAAGACIT GAGACITGIA AGATIGGNCC NGGCIGCAGT CCCGIGGICA GIAACATCIG CAACATIATA
CAGCCAGCAG ATCAGCICIT CCAGCIGACA GCAAAATGIC TICACACATT GCACCAGIGA TICITITCCC TIGINCICCIC
CITTCCIGGG GAAGCIGCCC TINAACA

SEO ID NO:1540: (Length of Sequence = 354 Nucleotides)

ATTTATTCAG ATGAAAAAA ATCAAGGCTT AATTTAAGTA ACTTGTCCAA GGTCAAGGAG TTGACAAGTG GCTGAGCTGG
AGTTCAGCAT CTCAGACATC TTCCTTTGAA TCCTTGCCTT CCTTGTGAAT TTCAGATGAC GGAGCATGAC GGCTGCATGA
TTATGGGGTC ACCGGGCCTG TCCTGGGCCT GAGGGACCAA GGATCAGAAA GGGCAAGAAC CAACTCGATC AGCTAGTGAA
AGTGCAATTG GALEMTGATC CTGTTTCCGG GNITAACCTT CCGCTTGGCC TTTAAGAGGG NITCTTGAAA TGCALCAAGG
GGGCCTAGAG GAAGCAAGCA AACINCTTGG ACCT

SEO ID NO:1541: (Length of Sequence = 403 Nucleotides)

GIGATGITAT ATCAGGIAAA ACCIGICIAA GGAGAATAGA CAGIAGITAG TICAACITAC TCATTACGIA TIAGGAAGAT
TAACCIGGIT ATCATIGITI TATACATATA TATATGNAAT ATATATGAGI ATTCGIATAA ATATAATACI TITACCITGI
TIATGIATIT ACICAATATI CICCITTICC TCIAAAATAA TCIGAAGIGA CIATTATCAA TAAGIITACT ATGCCAAAAT
TCATTAATIG CCITTCACIT AACITTIGGG GCCATAATAA ATAATAAAAT GIATTGCCAT AACATTAATA AACTACCITA
CAAAACCACC AATTAAAATC AAACAACCAA AAAGGIGITA TITACATCIG NNCACATAAA TCIACTAAAA ATACAGGITT
CAT

SEO ID NO:1542: (Length of Sequence = 333 Nucleotides)

CTGGTACATG ANTITATAAA AACATGTCAC GCCCGGCTCT GTGGCTCATG CCTGTAATCC CAGCACTTTG GAAGGCCGAG
GCGGGCGGTT CACAAGGTCA GGAGATCGAG ACCATCCTGG CTAAAACGGT GAAACCCGTC TCTACTAAAA ATACAAAAAA
TTAGCCGGGC GTGGTGGTGG GCGCCTGTAG TCCCAGCTAC TCTGGAAGCT GAGGCAGGAG AATGGCATGA ACCCNGAAGG
CGGAGTTTTC AGTGAGCAGA GATCATGCCA CTGCACTNCA GCCTGGGTGA CAGAGCAGAG CGGGGACTCC GGAGCAATGG
GNAGTACAAT CCT

SEO ID NO:1543: (Length of Sequence = 329 Nucleotides)

CCCCIGATAA ACCIATCAGA TICIGIGAGA CITATICATI GICATTAAGA ATAGCAGGGG AAAGACIGGC CCCCATGATT
CAATTACCIC CCCCIGCATC CITCCCACAA CAIGIGGGAA TIGIGGGAGA TACAATICAA GIIGAAATIT GGGAGGCGGC
ACAGCIGAAC CATATCAGIC TGTATTATCT CICCNITTIT CIGCITTAAG NGACTATACG NAGGIGITGI TITCAGGGNI
TATACATAGG TATICIGAAA GAIGGGGITA TITTCIGITT CANACITIGA CIAAGIGGCI TCTTTIGICC CCTATGIGCC
AGAATAGCC

SEO ID NO:1544: (Length of Sequence = 313 Nucleotides)

COGAGATCCG TGATGTAACA AGGATTGANC GAATCGGTGC CCACTCCCAC ATCCGGGGAC TGGGGCTGGA CGATGCCTTG
GAGCCTCGGC AGGCTTCGCA AGGCATGGTG GGTCANCTGG CGGCACGGCG GGCGGCTGGC GTGGTGCTGG AGATGATCCG
GGAAGGGAAG ATTGCCCGGTC GGGCAGTCCT TATTGCTGGC CAGCCGGGCA CGGGGAAGAC GGCCATCGCC ATGGGCATGG
CGCAGGCCCT NGGCCCTGAC ACGCCATTCA CAGCCATCGC CGGCAGTNAA ATCTTCTCCC TGGAGATGAG CAA

SEO ID NO:1545: (Length of Sequence = 384 Nucleotides)

COCAAAACCT GGAGCTAAGA ACTICATCTC ACTITIGACA COCCAGCCCC CAAAATATGG AAGCCCAGGA GAGCCAGGAG
AATTIATAGC AGAGGCTTAA AGAGAAAGIT ATGATTIGIT TAAAGTAGAG AATAAAGGTGA AAAATAAAAC CIGGTACTCT
GTCTGGAAGT CCTGGAAGTC TCCTTGCCCA ACCTCAACTG GCCTGTGGGC TCCTGTNTCC TTGCTCTGGG ATGCCATGGT
GAATGTGAAA ACAGGGAGG TTGTGTGTGG GGGTGGGAAT GGCCTNTCGG TTGCAAGGCG AGTCCTTTGC TGAGCCCAGC
CTGAGACCCA GCTTATGGGC TTTATCCAGG TGAGAAAATN CTGGGGACAT GTGTTCGAGG TTTA

SEO ID NO:1546: (Length of Sequence = 345 Nucleotides)

TTTAAAGAAC AATGATTAAG TGAAAATNCT CICAGTITTI TTTAATTGGT TCAGCAATTG ATTAATTACT GAATCITGAC CCTAAACTTT TTAGTCTAGA AATGTGCTTG AGGAATACAG GCTGGAGATC AGCTTTTTGA CATTGCATTC CCCTCCTGGN TCACAGCCAT GTTGGAATCA ATTTATAAAC TGCCTTCCTA AGGCTTAAAA TGATGGTGAT CTACAGACAA GTGCCTTCCT AGGCACAGGG TTGCTGGAGA CTGATGCCAG GCCCATGGCT CTTAAACGGA ACACTGAACT CATGGCAGAA ATGGTGGAAA GTAGAGAAAT GAATAGAGGG GGGAA

SEO ID NO:1547: (Length of Sequence = 342 Nucleotides)

SEO ID NO:1548: (Length of Sequence = 334 Nucleotides)

GGAAATAAAG GTGACATGAA CTAACTATTC AATCATGAAT GGTAGAAAAA AATGAAAATG TAACGAGATG GGATCCGGGT
CAAAGTCAGG GGAGGTATAG TTGAAGATAT TGAAGGAGTC ATTATGATAC CAAAGAAAAT GGAAAGAAGT GGTATCCAGA
TAGGTTATCC TTGGAGAGTA TCCNGGGATG TCTCTTTTCC TAAGACCTTA GAGAAGGAAA GGATGGCTGA TAATATAGGG
AAAAGTTGAC ATGGAAGGAT TAAATAATTT TTTTGAGGAA TTCACGTAAG GNATGATAAT CTGAATTTTC AGGGCTAGGC
TCAGAAGCAG GAAT

SEO ID NO:1549: (Length of Sequence = 362 Nucleotides)

AGGATICIGG GGGCTTAGAG AGGGCAGCCT GGAGAAGCCA GAGITAAGCT CAGAACAAGA GGIGCAGGAA GAGCCACAGC
AGGGAAGGGA AGAGAGATCC CAGAGGAGGG GCAGAGINIG GCAGGACAAG GGCCCTGCCG TACATGCTAT GCATGAAGGA
AAATCITGAG ACTAAGACTC ATGAAAAGNT CCAAAAATAAT TATTTCGIGT GGCCCCTAGA AGACINAAGA GACATTINCT
TCGCCATTTG CCCAGGGCTG CCTGGGCAGG AGACAAAGGA ATNAAAAGTC CAGGGGGAAA GCAAAAAATCT ATGGGCTTCT
GAACACATGC TTCCCGGAGC TCGICINCAC AGCATCTTCA CC

SEO ID NO:1550: (Length of Sequence = 328 Nucleotides)

GGACTAATTA ACTAAAGAGG TITTGTACAG CAAAAGAAAC TGTCAACAGA GTAAACAGAC CTACAGAATG GGAGAAAATA
TTCACAAACT ATGCACCCAA CAAAGCTCTA ATATCCAGAA TCTATAAGAA ACTTAAACCA TTGAACAACC AAAAAACAAA
CAACCCCATT AAAAGTGGAC AAAAGTCATG AACTGACACT TCTCAAAAAA AAGACATACA AGCAGCCAAC AAGCATATAA
AAAATGCTTG ATATCATTAA TTATCAGATG AATGCAAATC AAAACCACCC AAGTCTTTTT CTTCTGTCTA GGWTAATTTA
TTTTAGGG

SEO ID NO:1551: (Length of Sequence = 365 Nucleotides)

CAGGAATTIA CATGGGGAGA CCTACCTATG GCAGCTCTCG CCGTCGGGAT TACTATGACA GAGGATATGA TCGGGGCTAT
GATGATCGGG ACTACTATAG CAGATCATAC AGAGGAGGAG
TCAGATTIAT AGAAGGCGGT CACCTTCTCC TTACTATAGT CGTGGAGGAT ACAGATCACG TTCCAGATCT CGATCATACT
CACCTCGTCG CTATTAAAAGC ATGAAGACTT TCTGAAACCT GCCCTAGAGC TGGGATATTG TTTGTGGGGC AATATTTTTN
ATTGTCTCTT GTTTAAAAAG TGAACAGTGC CTAGTGAAGT TACGT

SEO ID NO:1552: (Length of Sequence = 330 Nucleotides)

GATCCAAAAA AATTTACTGA AATAGCAAAA ACGTGGACTT TGGGATTTCC TCTAACTGCT GCAAATTATA ACACAGAATT
GCTCAGTGTT AATACTTGAN TTGTGGGGCC AAGTCTTCTG GCTGCCCTAG TTCTCTTTTC TGGCATTTGA AAGCCCTTGA
GCTAGCTATG GAGCTAATCT TTGGACAGGC TTTTTGGTTC CCAGGAATGT CATGCCTTTG AATTTCCAAT CTATATATAT
ACAGTGTGTG TGTATGTATA NCTGTCTTTT CACTGTAAGG CACCINCACC CATCCCTTAT AGAAGGNGGC CACAAACAAT
CAAGCTAATC

SEO ID NO:1553: (Length of Sequence = 304 Nucleotides)

CCCTTGTCCC ACAGCCATT AAAAATCTTC TGAAGGGCCT CAGGGCACAA AGTGATCATT TGGGATCCTA AGTTAAAAAG
GAAATGCAAG AGTAGGNTAC TCCAATTCCA GAGTCTTTGC AGGAGGCTAA TCCCACAAGA AGGGTAGCAT CAGAGAAGTG
GGCATTGGTC TTAGTGGTGG ATCATCAGGT AGACAAGTGA TAGTGTGTGT AACCCATCTG AAATTCATTT TACCGTCACC
ACTCTTACAA AGGACAGTTT ATTCCCAAGG ACAGTGCTGA CGGGGAGGGG GACAGGCAGG GAGT

SEO ID NO:1554: (Length of Sequence = 309 Nucleotides)

TGIGITACIG ACCATGITIT TGAGAGTAGI GCCCCIAACC ACTITGICIC CACTIGCATA GIGIAGIGAT TITINAGENCT CIGIATIGICA TATTATAACA GAACTGACTG TATATGGCTA TITITATCCCA TAATCAAGCC AATTCITCCA GAATATTACC ATCAGTATTA CCACATACAT CCTCCCAAAT CITATTTCAA AGAATAAATA TATAGTCACT CATGGTTTTT AAGNAACCC AAAACTACTC AACCAAAACC TTGAGGAAGG TTTTTCCAGG GNITTCTACC TTAATTATTC ATAATGATT

SEO ID NO:1555: (Length of Sequence = 326 Nucleotides)

GITTAAAAAC TGICCAAATG TCATTITAAT TIATGAAGGC ACCCAGAATA AGINCIAATC TCATACTGCC CCAATATATT
INCTGAAGCC AATICTCTCT TITATTAATT TITACTGAAA ATAGCACTIT TITCCTCCCC CTGATAGTAC TGGGTAATGT
TAGAAATGTCC TCIAAAATTC TITGGACCTT ATTTACATTC TCAAGAGNIT TTTTTAAAATT TACCAATAAG ATGTGCTATT
TGAGGAATTA GACTITAGTT CAGTTGTACA TGGNTTATGT CTGCTCATAT CATTCATGTC TGAGNCTTTC ATTTTATTAA
TATGGG

SEQ ID NO:1556: (Length of Sequence = 375 Nucleotides)

CCCATCCCTG TITAGGIGCT TIGICCTCCT TGAGGAGCCT CCAATGCTGC TGCTCCTATA CATGTCACAA TITCAGACCC AGCATGCTAG GAACTGCTGC CAGCGCCTGG TTAAGCCAAT ACTAAATGGG GCCAAACAGG TGAACAGACA TTCTGTCTTT CTCCAAACCT CTGAAAAAGA TTCTGCAACT CATCTCACAG TAATTTGTTC CCTAATTTAC TCTTAGGAAA TTGTCGTTAA AGTCTGATTA GGTTAAGTCC AATTCCCTGT AATTAGGATC CTCAGTGAAG AAAAATCTAC CCATCACCAC AATTTATTTT CTTTTCTATA GCTCCAGCAT CAGTAATTGT ACCATTATTT TTGGCAGCTC TGGGG

SEO ID NO:1557: (Length of Sequence = 306 Nucleotides)

AATTCCGAAG ACTATICCTA TACATTAGAG TGAATTINAG ACTATCTCCA TCATTCTCCA GCCATTCTTC AGTGGGAAAA
AAACGGTGGA ATTAAACTAG TGGAAACAAG GCTTTCTCAT CTAGTCCCAA TCCAGTCGAT AAGCTGTGTT TNCCAATCAC
TGCTCCAGCA CAATGGCCCT CAGTTTATTT TTAAGTCTAT GGCATGCCTG AAGGACCATG TTCCCATGAG TGACACCCTT
CTGTAAAATGT GGTGGCACAT TATGGGCTGC TGTTTTAGAA GGGACTGNCA ACTTGCTGGG GGTTAT

SEO ID NO:1558: (Length of Sequence = 292 Nucleotides)

AATTCCCCCT TICCAAATGI ATTITCAATC CCTTGAGTGI CTAGGCTTCC TGCTTTTAAG GCCINCCTTC TAACCCAGGG
TTGCCCCCATT CACCTTAAAA CATTITTCAA TAACCCAGAA AAAACCAGGN TGAACATACC CAAGCTCCGG AACCAGCAAA
TMTTGTTCGA ACCCCGCTGA TGACTCCCAG GGGAAGCCAA GAGGACAAAG ACAAGGATGA GGACGAGGAC CCAGGGACCG
MTGGTGAATG GCAACTGCTG TCAACTTCAC TTTTCAACCT CAGNCAGTTT GT

SEO ID NO:1559: (Length of Sequence = 246 Nucleotides)

GTATIOGIT CICAGOCCAA CAAGAGIGAT COTTITAAGG TOCACACACG CIGCOTOTOC TUULLUGUA TGAGOCTOTG GCATAGICOT TOCTOCAGGOT GGCCCGGGC TGGGCAGAGC CICCTCCTGC CGGGGCCCCT GCCCACCCCC TCCTTTGCCT GGAGTNAGGG TGTTCATACC AAAGACGGAA CCATTTCGCC TTTAAAGAAA ATATATNCAG AAGCAGCCGC TGCCTCGNAG CCCTGG

SEO ID NO:1560: (Length of Sequence = 383 Nucleotides)

CCAAAGGIAC AACAGATTIA CIACATTIAA GACAGGAATC TITICIAATC TCTGTGCCTA TTAAAGAAGC CACCTGCTTA
GAAGTACTIT GTAGATGAAA AAATACTTAT GAATCCACTG TAACTTCACA ATCTTGAATG CCAAGGAAAA ACTTTACTAG
TTTCATTTAC CACTATTCTT TAAAGINCTT TTTGATTTTA TGTTTTAAAT TTTTTTAATTT TATATTTTGA GACAAGGTCT
TGCTCTGTTG CCCAGGCTGC GGGGCAGTGG CATAAACGTG GCTCACTGTC ACTTTGACCT CCTGGGCTCA AGGAATCCTC
CCATCTTAGN CTCCTGAGCA AACTGGGNCC ACAGGCATGC ACCATCATGN CCAGCTAATT TTT

SEO ID NO:1561: (Length of Sequence = 313 Nucleotides)

CCCCCTCCAC CGCAGTCTGT GCCCCCGTCC CCACCACCAC CTTCCCCAAC CACTTACAAC TGCCCCAAGT CCCCAACTCC
AAGAGTCTAC GGGACGATTA AGCCTGCGTT CAATCAGAAT TCTGCCGNCA AGGTGTCCCC CGCCACCAGG TCCGACACCG
TGGCCCACCAT GATGAGGGAG AAGGGGATGT ACTTCAGGAG AGAGCTGGAC CGCTACTCCT TGGACTCTGA AGANCTCTAC
AGTCGGAATT NCGGCCCGAA GNCAACTTTC GNAACAAGAG AGGCAGATG NCAGAAAACC CATACTCAGA GGT

SEO ID NO:1562: (Length of Sequence = 320 Nucleotides)

AAACGGGCCG CGAACCGCAG TATCATGCTG GCCAAGAAGA TCATCATTAA GGACGGAGGC ACGCCTCAAG GAATAGGTTC TCCTAGTGTC TATCACGCAG TTATCGTCAT CTTTTTGGAG TTTTTTGCTT GGGGACTATT GACAGCACCC ACCTTGGTGG TATTACATGA AACCTTTCCT AAACATACAG TGTGTAACAG TTCTAATACA GCAAATTTAA TACAATTTTT TATTAGATCA AAATTCAATA GAATGTTCA TATGTTTTAA GGAAGGTTCA TTGAATTTCT TCTTTTCAAT GGAAGTCTTC ATTTGGAAAA

SEO ID NO:1563: (Length of Sequence = 299 Nucleotides)

GCACAAGCAT GACCIGAACC IGICACCIGC COGINAGIAT ITCACATITC TATAGITITI IGIGATICIG CCIGCATITA
ATCATCATCA CCAACAAAAA TAGITCCICI GAAGAATTAI TITATACIAG GATTCICAGG NIATCICCIC TCAATCICIA
TIGGGATCAC TCCACICIGA CITGIACACT CATTITCCCA CIGAIGIAGC IGITCICAAG TIAGAAGITA AGITCICAGI
CTTCATITIA TCAGICATCI CAGCAGCATI CATTATGGIT CAGGCACTCC CICCIATIT

SEQ ID NO:1564: (Length of Sequence = 325 Nucleotides)

CAGATGENIC AGITCATACT CIGGCAGITA ATTITATITC CICTAAATAA AAATGGACAG GITAATTIAT TAAGCAGCIG
TGITATCAAT AIGGIACGIG TGIGINCITG TATAGATAGA TGIATATGIA CATACATAAC TATACATTIT NCIGGACACA
TAATATTINA GGIGCCIAIT GIATGCIAGA CACIGITCIA CCATCAGIAA AAAAGCACTG CCCIGITTTA CIGTIGATTA
AAAACAAAAT TCIGAAAATA GIGANCAATG AGGCITACAA CATTIGITAC AGGNTAAGGN ATCICAATTT AGGAAAATGT
TGICA

SEQ ID NO:1565: (Length of Sequence = 382 Nucleotides)

TITITITITA TATIAGIGCE TECTITITAA AAGITTATIT TACATITIAA ATACAGIATI TITICICATAA AAAAAAAATC CAGGAAGIGC CIAACTCCAT GGITTCIATA CCATATGIAC ATGAAAGCTG ACAGAGAGCC TGACAAATGI TCIGGATGIA ACAGTATGAA CACCIATGAG CIGGGACTAC TTCIGANTCA AAATTAAAAA ACACAAATTA AGCACTGCTT AAGAAAAAAAA AAATCCAGTT TCIGAACAAC CAAAAGAGAA CAGAGTTAGA TATGIACAAA ACCAGGTATT AAAAANCAGN AAGGAATACA GCACACAAAA ACTCAAACAN CCCATATGIA GIGAACTGIA TATACTGCAG TTAATGAAAA CC

SEO ID NO:1566: (Length of Sequence = 305 Nucleotides)

GCACTGTGGC TAATTGTAGC TCAAAAGATC TGCAGAGCTC CCAGGGCGGA CAGCAGCCTC GGGTGCAATC CTGGAGCCCC CCAGTGAGGG GTATACCTCA NTTACCATGT GCCAAAGCAT TATACAACTA TGAAGGAAAA GAGCCTGGAG ACCTTAAATT CAGCAAAGGT GACATCATCA TTTTNCGAAG ACAAGTGGAT GAAAATTGGT ACCATGGGGA AGTCAATGGA ATCCATGGCT TTTTTCCCCCA CCAACTTTGT GCAGATTATT AAACCGTTAC CTCAGCCCCC ANCTCAGTGC AAAGC

SEO ID NO:1567: (Length of Sequence = 292 Nucleotides)

GATTICCCIG GGGAAGACAA CATCACCAGC AAATGGATGA TIGICAACIG GGGAGCCATI GACTCICCAC TIGATIGIGG
GITGAGGITC INCITCAGCC TCACATAACA AGATGCCATT GCTTCCGGIG CIATACACAG CACTCIGAGG CITCITTIGIC
CAGCGAGGAG GCTCTTCTAC TATAACGIGA AAATCGIGAG TGGCTGITCC CAAGAAATTG CTGGCTGIGC AGCGATAATT
TCCTTTGICC TGGTAGGAGA CAINCICTAT CITCAAAGIC TTGCCATAAT TT

SEO ID NO:1568: (Length of Sequence = 204 Nucleotides)

ACCTACTCAG GAGGCTGAGG CAGGAGAATA GCTTGAACCC AGGAAGCGGA GGTTGCAGTG AGCCGAGGTC ATGCCACTGC
ACTCCAGCAT GGGCAATAGA GCGNGACTCT NTCCCCCCGG AAAAAAAGAA CAAGGGCTAA NTTCAAATCA AATTTTCCCT
GTACCCTAAG AANAATAATT AGGNCGGAG ATGTTTGACT AAGT

SEO ID NO:1569: (Length of Sequence = 362 Nucleotides)

CACAAAGCCA AGTACAGAAC CACAGAATGA AGCCGTCACA AATGTTGAAT CCCAAAACAC TAACAGGAAC AACTCGTATT
TCCATTAATC AAGATTTTAG TATACCAAAT TTTCTAGTTT TTATCTCATG GAAATATAAG GGTATTTTAT CTTTTGTATG
CTACTGAAGG GNAAACATCA TCATACAGCA ATGAATACTT CAAGGGNCTT GTTGATCTCT CTATTATTGA CAGTGGGGTG
TTAAAGTCTC CCACTATTAT TGTGTGGGNG GCTACANCNC TTTGTAGGGC TCTAAGAAGG TGTTTTATGA ATCTGGGGGC
TCCTCTTTGG GNGCATATAT AATTTAGGGT AGTTAGTTCT CC

SEO ID NO:1570: (Length of Sequence = 262 Nucleotides)

TGCTAAATGA TAGANGACAG ATTCAAAGIT GIAGITACTG CGIAACTITA TITATGAGGC ATTITAGAAT AGGCAAAACT GATCINITGT GGIAGAAGIA AGAAGTGGGG TACCCTCTGG AGGAAGAGAA TITNCTTTGA AGTGGCATGA GAGGATTITT TTGGCTAATG AAATTATTTT NATATCTGAG TAGGGTTGTG GGTTACACAG TITAGGCATT TNTCAAAACT CATGGNACCA TXCATCCAAG TCCTGTGCAT TT

SEO ID NO:1571: (Length of Sequence = 402 Nucleotides)

TECTAAATGA TAGAAGACAG ATTCAAAGTT GTAGTTACTG CGTAACTTTA TTTATGAGGC ATTITAGAAT AGGCAAAACT
GATCTGTTGT GGTAGAAGTA AGAAGTGGGG TACCCNCTGG AGGAAGAGAA TTTNCTTTGA AGTGGCATGA GAGGATTTGT
TTGGCTAATG AAATTATTTT TATATCTGAG TAGGGTTGTG GGTTACACAG TTTAGGCATT TGTCAAAAACT CATGGAACCA
TTCATCCAAG TCCTGTGCAT TTTACTGTGT GAAAATTATA TCTCGACTTT TTTCAAAAAA GGAAAAAATA CTTAATTATA
ATATAGCATT TATGNATTAA AATAATCCCN TTATGTAAAA ATATTTTATT GGNTTGGTCA AGATTCATGA TTGCAAACCA
CC

SEO ID NO:1572: (Length of Sequence = 417 Nucleotides)

CTACCAGCCC GITTICACAA CTAGCAGCAA ATCCTGAAGC ATCCTINAGCC AACCGCAACA GCATGGTGAG CAGAGGCATG ACAGGAAACA TAGGAGGACA GITTIGGCACT GGAATCAATC CTCAGATGCA GCAGAATGIN TICCAGTATC CAGGAGCAAG AATCGTTCCC CAAGGTGAGG CCAACTITIGC TCCATCTCTA AGCCCTGGGA GCTCCATGGT GCCGATGCCA ATCCCTCCTC CTCAGAGTTC TCTTCTCCAG CAAACTCCAC CTGCCTCCGG GGTATCAGTC ACCAGACATG AAGGCCTGGC AGCAAGGAGC

GATAGGAAAC AACAATGTGT TCAGTCAAGC TGTCCAGAAC CAGNCCACGG CTGCACAGCC AGGNGTATAC AACAACATGA GCATCACCGT TTTCCAT

SEO ID NO:1573: (Length of Sequence = 368 Mucleotides)

CAAATAAGIT AGAAACATGA AAAATTCITA GAACITTAGA TGAAAAATTA AATTTACTAC TAATACCCAC CTGCAATAAT
TTCCCGTAGT TTGGGATCIA GGTTTACAGT GCATGGCAAA AAGACTITTA CATCTCGAGC CACAAGAACT GGGGTCCTTG
AAGACAAAAA CACTTCAAAA TTTCTTATAT CTCCATCAAT TTCAAGAAGT GGCTCAACAT CCTTAGTTGT TGGAATATTC
TTTGATATTC TTTCGTAGAT GGTTTTTAAT GTCATTTGAT CTGGAATACC TTCAGTCTCT TCCAAATATA ATATGAGNCA
TGAAGTCCGG TATGGCCACT GCTCAGTAAG GTTGATCCCG CTAGCAAG

SEO ID NO:1574: (Length of Sequence = 397 Nucleotides)

AATTTTAAGC AAATGTTATG TTTAAAGACT GTTTGATGA AAACTTTTAG AATTGAGTTA GTAGCAGAAT ACATAGCTAA
ATGTACTTIN CTACAAATAG AATGAGATAT TTGATTTAAA ATATTNCTTT CCTCTTGAAA TAGGATGTTA GATAGGGACA
TCTCATTTTA CCTATCAAGT TCTGAGTCTT GCTTTAGAAC TACTTCTTTT AACTTAATTN CATGCATACA CTGGAAGACA
ATAATATGGC TTTTTAACTG CATTATCTTT AGTTGAAACT GATGGAGAAA CAAAAATACT GCTTATACCA TATTGGGTAC
ATGCTGAATG TTTTTAAAGA CTAGCCAAAA CTGACATTTT TTAAAAATTAA ATAAGATGTT TTAGTTTCAA ATTAGAG

SEO ID NO:1575: (Length of Sequence = 296 Nucleotides)

GGACTICAGCC TICCGCGGCA TCTGCATGAT GATCGGTGTC AACCCGGGGG GCGTTGTGCA GGTTGGGGCA GCTGGGCTCT
NAGGGCAGGC GCGGGCNCTG GGCTCGGGCG GCCCCTCACC TGGGATCCGT CACGTTTCAG GACTTTATTT TCTTCTTCAA
TGNTGTAGCC TCCTGGGTGA GCCCGAAGAT NACCTTCGGG ACATGTTTTA TAAGGTGAGG CTCTGTCTGG GCCCTGATCT
AGTTCCGGGA GCAGGCAGGA NGTGAGACCA TCTGGTAACA ATNGGGGCTN GGGATT

SEO ID NO:1576: (Length of Sequence = 289 Mucleotides)

CITTATEAAG TAGTAATTCC TEAGAGGTGT GCTGGCTGAA AACATAATAG GTTCTGGAAG AGCCAGGTAA ATGCCTGGNT TTAGGACATGC AGGGGTTAAT CAAAATAATT TAGGAGCGTT TTCAGCTGGT GAGCCTCATA TGGGATCTTC GAACCCGTGG CGAGAAGAAA ACCGGTGTTT AGGNAGCACC AGGCACAGTG CTCGGAAGGG AGAGGCTNGC CGGCCAGTGT GCAGCTCAGC TNTTTCGAGG ACGGAACCCG CAGCCTNGCT GTNTCCCAGC AGACCCAGG

SEQ ID NO:1577: (Length of Sequence = 320 Nucleotides)

CAGACTCIAC TCAGATITCC CGCCIATGCC CCTAGGACAG AGCIGGAAGG GAAGGAGGT GGGCCTATIT AGTCATAATG
CCTCCCCACC AGGICIAGCT TTCATTCATC CATGAACCCT CACCCAAGGG CCAAGAACTG AGTTCACTGC ACCCTGGACC
CCTGTTGAGG TAGGAGAAGT AGACGTTGGG AGCAAGGTTC CTCTCCTAAT TTTNTTGCAT CCCCTCAGTG CCCAGCACAG
CTCCGGATAC AGGCCAGGTT CACAGTCAGC GTGTTCACCT GGGNCTGTGT ATGCACCTAA GGAAAAGNCT CAATTTTCCT

SEO ID NO:1578: (Length of Sequence = 217 Nucleotides)

AATCAGGAGA ACTGITAGAG CCATACCAGA GAAAATCACA AGAAAGGCAG GACTGCAAAG NICTAGTGGA GGCTGTGAGA
AAAGGTAAAC CCCTTCTTAA GCTCATCTGC CCCTTTAGTT ACCACTGGCT GTCTCACTCC TGGATTTATG TGACTCCCTT
AGCTAVACTT TCCCANCCCC CTGGGATTTT CCCCACTCAT CCVVATCACT CACAAAG

SEO ID NO:1579: (Length of Sequence = 375 Nucleotides)

TIGGICCICA AGICCIATIT TAAAATITIG TCAATTAGAG GACTCITGGI TCTCITGGIT GACTCATICT CIGCIGATIT
GITCICIGIA CITGCAGCAA ATAAAGIGCA GICATTGAGA ATGINCCIGI GICACIGIGA TGTATCAAGG GATCITCATG
TTAATATCIG TITCICIGAC AACIGIGITT TATACITIGI ACTGTAGCIT TCATTGGAGA AGCCCTGGGC TCATAAGAGT
GATTIGITGI GGCATTICCT TATGGAACAT AAGCTTTIGA AATATACTTG AGGTAAATAT TCATGGGAGA CATCCAAATG
CAGTAATGAG AGIACAATGA AGACAGCATT TINGACTTIG GAAACCTGAG TTCAA

SEO ID NO:1580: (Length of Sequence = 325 Nucleotides)

TCINCIGAIG CACCCAIGAG AGGGGAGACA GCACIGICGI CICICGCAGI TITICCCITAA CACICCCITA TCIGCAGACI
TAAACTAGGA GCCCCIGGCA GAGTCCIACC TCCAGAATCA CAAAAGIGIA GAAGGAAAGI GAGAGACAIT GAITGACIIT
ATATCIGACT TACTAGTITIC CIAAGGCAGA GATTTITIAG AAAACIGCCI GGCCIGGCCC AGCCCAGGAI AGATAGGGAI
GGGIAAGAAG CCCIINAGAA TGIGGCAGIA TGIGGCIING ACITCAGACI TGICAGAITA GGGGIIIITAT AGGGGIITITI
TTAGC

SEO ID NO:1581: (Length of Sequence = 402 Nucleotides)

GCAGATCAAG AAAAAGITTC AGCCAATGAA CAAGATCGAG AGGAGCATAC TACATGATGT GGTGGAAGTG GCTGGCCTGA
CATCCTTCTC CITTGGGGAA GATGATGACT GTCGCTATGT CATGATCTTC AAAAAGGAGT TTGCACCCTC AGATGAAGAG
CTAGACTCTT ACCGTCGTGG AGAGGAATGG GACCCCCAGA AGGCTGAGGA GAAGCGGAAG TTGAAAGGAG CTGGCCCAGA
GGCAAGAGGA GGAGGCAGCC CAGCAGGGGC CTGTGGTGGT GAGCCCTGCC AGCGACTACA AGGACAAGTA CAGCCACCTC
ATCGGCCAAG GAGCAGCCAA AGACGGAGAC CACATTCTAC AAGGCCAATA AAGACCTACG GCTTTTTTCC CNTGGCCAAT
AA

SEO ID NO:1582: (Length of Sequence = 286 Nucleotides)

TCTTAGTIGA TTAAAACAAA TAATIGAAAT AAAAAATTAT GTITATNCIT ACATGTATGC CATGTAGCAC TTTAAGGAGA
TGAGTITATG AAATTCATGA ATGAGAGGAT GATGTAAGTT TAAAAATCAT TATTTTAGTT GCTTTATTCT NCTATTTTAA
ATTCATAAAT AACACAGGIG GCCTGTATTT TGAAAAGAGC CCTTTCCTCC ATTTGANCIT TATAAACACT GAGGCAGTAG
GTGTAAAATA TTATCTCCAC TTTATATTTG AAGGAAATGG GGGCCA

SEO ID NO:1583: (Length of Sequence = 323 Nucleotides)

CTAATTITIG TATTITIAGI AGAGATGGG TITCACCATG TIGGCCAGAC TGGTCTCAAA CTCCTGACCT CAGGIGATCC
GCCTGCCTTG GCCTCCCAAA GTGCCAGGNT TATAGGCATG AGCCACCACG CCTGGCCTTC CAGGIGATCA CTTGTTAGGA
TACTGCTTTA ATTCATTITC CCATTGAAAA TAAGCATGAA AATAACTGTG CAGTCATAAT TGTGGTATTT NCTGTNAAGG
AAAGTGGCAG GGCTCTGAGT GTTTATCGGG AGACCTAACC CAGTNTCAGA GGGGAAGTCA GAAGGCTTAC TNCCCAATGG
GGG

SEO ID NO:1584: (Length of Sequence = 301 Nucleotides)

AAATACTIGI AAATCACTIT AIGITICIGA GIAAGGAAGI AATGAAACAI ACGIACAAGI AATCAGIAAG ACTIGITAGA CAGCIGITGI TCAGGATGCC TITTAAAAAGGG CIGGIAATGC AGITACATIC TAACAGAGAA GICCAAACTA CAGGIAAAAA CIACGGCITG TACIGIGAAA AATGIGCAGC TITTCAGITA TAAAACTAGI TGAACACTGG TITTACAAGGI AATCCGTAGG AACAGAGAGA CIGIAGGAAA ATATTCCAGC ACTITGAGIT GIGITITIGGC AGCAGCATIT G

SEO ID NO:1585: (Length of Sequence = 328 Nucleotides)

AAATACTGAT TICAGACCIT CITGCTCTAG AAGTCAAAAT ACTITCCCCC TGACAAGAGG TAAGATAAGG TAGAAAATAG AAACACTGGA AGAGAGATCT GGACTCCTAA AGCTGTGATG CCATAGTGTA GTGGGGGGGG GTGCGTGAGG AAGTCAGGAA TGCCGCAATG TTAAAGGGAA AGGGAAGATG GAGCAAAGTG AGTCCCAGGG CCAGCAGGGG GCCAGCCTTN TITGACAGGG GCAGGGGAGA AAAGGCCAGA CITCCCATAC ACATGCTAGA GGGGAGGGCT AGTGTTGAAG GGTAATAAGT TGAAGGAGTC CACGGGCT

SEO ID NO:1586: (Length of Sequence = 256 Nucleotides)

GGACTATCTG TATGGCAGAC TCATCAACTT TGAGAAGAGG AGGAAGGAGT TGGAGGTGAT CGCCCAGATC AAGCTGCTGC
AGTCGGCCTG CAACAACTAC AGCATTGCGC CAGATGAGCA ATTTGGGGCC TGGTTCCGGG CGGTGGAGGG CTCAGCGAGA
CTNAGAGCTA CAACCTGTCG TGCGAGCTGG AGCCCCCATC CGAGTCAGCC AGCAACACCC TCAGGACCAA GAAGAACACA
GCCATTNTCA AGCGCT

SEO ID NO:1587: (Length of Sequence = 371 Nucleotides)

GGATTCTACA GGCATAGACT TACACGAGIT TCTGATTAAC ACATTAAAGA ATAATTCCAG GGACAGGATG ATACITTTGA
AAATGGAGCA GGAAATTATT GATTTCATTG CTGACAACAA TAATCATTAT AAAAAGITCC CTCAGATGTC ATCGTATCAG
AGGATGCTTG TCCATCGAGT GGCAGCTTAT TTTGGATTGG TTCACAATGT GGATCAAACA GGNAAATCTG TTATCATCAA
CAAGNCCAGC AGCACCAGAA TNTTACCAGC CAGTCTTGTC TNGTCAACAG GGGNTTCCAA GGGCTAATAG GAGTNCAGCA
GCCCACCTCA GAGTCAGACG TGGTTAAATN ACCCCCAAGG GACTCCGGTG C

SEO ID NO:1588: (Length of Sequence = 314 Nucleotides)

CACACAGGAT TECATAATAC TECTGETGIG TICTGAATAT TIGTACITCA CATGGGATTA CIGAACACTA CIACGAGATT CIGAACACTA TAGGATTCCA AAATGCCCCT GCTGTGTTCT GITTGTCCCT CACATAGGGT CACTGCTGCT GGGTTCTCAG TGTTTCTCAC TCACATAGAA TTCCAGNACA CIGCGAAGAA TITCTGAATG GTTTTCTGTA ACATAGTATT CCAGCACACT CICCCTGTTG TITGAATGIT TGTCCCTCAC ATAGGATTCC AGAACACTTC TGCTGATGIC TIGA

SEO ID NO:1589: (Length of Sequence = 256 Nucleotides)

GACGAGGCAC CATGOGTGAN ATCGTGCACA TCCAGGNGGG CCANTNOGGC AACCAGATCG GNGCCAAGTT TTGGGAGGTC
ATCAGTGATG AGCATGGGAT TGACCCCACT GGCAGTTACC ATGGAGACAG TGATTTGCAG CTNGAGAGAN TCAATGTTTA
CTACAATGAA GCCACTGGTA ACAAATATGT TCCTCGGGCC ATCCTCGTGG ATCTGGAGCC AGGCACGATG GATTCNGTTA
GGTCTNGACC ATTCGG

SEO ID NO:1590: (Length of Sequence = 313 Nucleotides)

GGCAACAAGC CAAGTAGCAA AGATATAAGC AACAATCAAA TGGAGCCTGA AATATGATAA GAGCATACAT GCACTTTAAC
AATAATTTIG ATACTGGAAT GATTATTTCA GAAGCAATAT TITINCTGAA AAGCATTGGT CITCTGTACA GAAAAATAAA
AAAGTGAGCT GCCACTCATA GTGAATTAAG AGCTGTGGGC TGAAAGGGTC TCTTTTATAG CCAGTTTGAA ATTTTTCATA
TAATAAAAAC AGTATGTAAA TATTATATAT ATATACACAC ATACATATAT ATGCATATAT GTACATATTT CTG

SEO ID NO:1591: (Length of Sequence = 296 Nucleotides)

THINAGICIC CEGCCTCACA ATTCAGCGAC TECAGCTCGG CCAAGGCCAG GGGAGACCTG GGTGCCTTCA GCAAAGGTCA
GATGCAGAAG CCATHTGAAG ACCCCTGGTT TGCCCGGCGG ACHGGGGCACAG GGGGGGGACAG GGGGGGCAG GGGGGCCAG GGGGAGACCCCC CANTNCCTGC CACTNTCACA CAGTATTTAT TGTTACCAAA ATGGCT

SEO ID NO:1592: (Length of Sequence = 299 Nucleotides)

GGAATTCCCA AATTATGGGT AGTCCAAAAG CCAAAGGCAA TGTGAGGAAG GACACTCCCC AGATAAGAAC AAAAACAGAA
ATCTGTATGT NCTATGTGTT ACACACAGTT GCGAATAATC AGATGTACAC ACATGATGCA AAGGCACGCC GCTACACATT
TATGTGATAT TCAGACATAT GTTCAAATAG AGGAGGTGAA TATCTTTTTA TAAATACAAT TTAGCAAGTA CAAGAATGCT
GATCAGCTGC AGCTCAAGAG GAAAGGGGGG AAAAAATCTT ATGGGAAATT ATTAATACT

SEO ID NO:1593: (Length of Sequence = 378 Nucleotides)

CCAGITTEGI GATICINITC IGIGICIGCI GATCIATIEG CGIGAGAGAC TGAAAGIGAC CAGCCAACAG CCATAACITT
ATGITTAGIG AGACICATAA IGGGICICCI GCIGGAAGAT CICCCCICTIA AGANICAGIA ATTCIAGACC IGCAAAGITT
GAAGITGIAA GCAIGGGAAA CACAAATICC CCAAATAGGI CCAGATAGIG ATAGAGAATA AGACACITAC ITGCCIACIT
CCATITCICA GCCCAGATAT ICTACCIATA GIGGACATGC CCAIGCAATG GGCIATIGGG ITTGAGGIAT ACATIGCACG
GIIGGAAGGAC AGIGCCICAT CCIIGCAGGG GIGCCCITIN CCAGITGGCA CCACAGCT

SEO ID NO:1594: (Length of Sequence = 353 Nucleotides)

ATTITINGG GGGAGGIGIA TGIAGATGAG AGICTATGAT ATAAAGCAGI AAAAAAAATG CIGITGIATA GGGATGCAAT
ATTITCGGIG TAAGGAAGAG GITTTAATIC ATAAAATAGA AAACAGGITG GAGAAGTCIT TAGGAAAGGG ATACCITITG
GGITGGCTIT TGAAGGAGAA GITTATACCC AGGITCAAGC TGAAGGGCTA AGIGAGTAAC TGAAAGGGCI GAGCTATTIG
GATTACCATG AGGAATTIGT GATGGCTGGG AATGTAGGGI GIGTGACCAG ATGTGGAATC ACAGAGGGAG CCCACAGAGG
AGCTTCGGCA CATAANCTAA AGAGITTAAT TIT

SEO ID NO:1595: (Length of Sequence = 343 Nucleotides)

CAATATATTA AATCTATTTT GTAGCTGGAC TICACITACA AIGTAACAGA ACATIGAATA TIAGATTCIG AGCATATICA
TGCAAACITC CACTTIGGIG AAAGIGAIGA CAGIGGAGIT CIGGAAGACA AITTTCCTIG TAAACACCAA GITTTGCACT
TIGGACTATG CICTCAAGAT AGAAACITAC GIGAGIGGAA AAAGAAAATG TATAAATGIG AACAAATATT CCTTACCACA
CAGAATAACC CIGGCAACAA ACAATATCCC CAAGICCTGG GINATTCAAT CCTCACCGIG GGCAGGAAGG GIGAAGGAGG
CTGCACCTGG GNCACAGCCT TIT

SEO ID NO:1596: (Length of Sequence = 373 Nucleotides)

TAGICAGTTA TIGCIGCACT AGAGCTAAAT AAAAGACATA AATATCTAAG GCACTTACTG GAATAAACAT CITATTTCCG
CTAAGAGGIT GGCTAGGGAA GCTCIGCTTC AGAGTATGGG TIGAGTATAA GCCTGINCCA CATGICTTTT GCTCTGGGAC
CAGGAGTTGT GCAGCCCATC CITTTCTCAA GACAAAAGCT GAGCCAAGCA AGGACATTTA AAGCTTCACT TCTGCTCACA
TCATATCTAT TGGNCAAACA TICCATTGGG CCAAAGCAAA TCACATGGGC CAAGTCAAGC ATCAGTAGGT CTGGGGGAAT
ATTCTTTCCT CTACTCTTGG ACACATGGGA AAGGGTTATG CATACTAATT CTT

SEO ID NO:1597: (Length of Sequence = 276 Nucleotides)

GATIGICCAT ACITGATIAT TAGITICIAA AGAAAGIATI CITAATICCA AGCCTAATAG CICITATGIC ATTAGITICT AGTGCCAGAGA AATGIACTIG ATGAATITIT GITGACTITI TITITIGCIA GCCAATATGA AGGITGCCAG TCCCTGCCAA LANAGCACT AAAACTATIT TNCATGAGIA ATAACAATAA TATTCITTIT TAAATAGCAC CITTUACCCA AAAATCTTAA GCCTATATAA ACATTCACTC AACANTACAC TCAAAA

SEO ID NO:1598: (Length of Sequence = 355 Nucleotides)

TGIATIGCIA ACIGICTITG TAACIAATIT ATGIATACNC TAAATGGIAT AGCATGIGAT TITATIATAG TIGATTAACI
TIGIAATINC TGIAACIGCA TOGATATCOC AGTCTACCIG GAAAATTAAG TCTATTAACC ATAGITGCIG TGGGAGACAG
TACIATIGCC AACIGAAGCC TGAATCCTIC ATTTATTTIG TCCCCAGITA CAGAGIGGAG GITTAGAGGA GIGGGGITAG
ATAATGCTCA GATTAGAAAT ACAAAGGCAG CIGTCAGATC CICCCATTIT ATTTGITTGA AGGAACIGAG GITGGIAAAC
ATCACAAGNG CTAGITAACT GGIGAGTAGC AGCCC

SEO ID NO:1599: (Length of Sequence = 313 Nucleotides)

GEAGGTEAAG GACACAGTEG ATGGGCAGAG GNTCCTGGAG AAGAAGGGCA GTNCTGCNCT CAAGGACCTC AAGCGGCANT GCATTTGGAG CGGAAACGGG CAGATAAGCT GCAGGAGCGA CINCAGGACA TCCTCACTAA CAGCAAGAGC CGCTCAGGCC TINAGGAGCT GGTTCTCTCA GAGATGAACT CACCAAGCCG GACCCAGACA GGGGACAGCA GTAGCATCTC CTCCTTCAGC TACCGGGAGA TCTTTCGGGA AAAGGAGGAG CTTCGGCTTG TTCCAGCCAG GTCCTTATCC AGCAGNCCIN AAG

SEO ID NO:1600: (Length of Sequence = 277 Nucleotides)

AGITCACAGA ACTOCAATIC TITATIAATC ACAGCITGCT CACAATGACA TACAGGAAAA TAGCACTAAT GAAGAGTAAA TATGCAGGCA GCAACCITCA GGAGTIGGGA GITGGGGAGA AACGACTTCA AAACTGCGAT AGGTACTTAT GGTGGGTATC TGGTGATTCT TAGTTGGCAC AAATGCCCTG CCTAGCCCCC TTAACTGCGT CANTITCACA GATGGAGTGT TITGTTGTTG GTGTTGTTAG TAGGCAGGAT TGCCTTACAC TGGGGGA

SEO ID NO:1601: (Length of Sequence = 228 Nucleotides)

SEO ID NO:1602: (Length of Sequence = 299 Nucleotides)

GGAAGTCCTT TCTAATGAAG AGGGGAGATG TTATOGATTA TNCATCATCA GGGGTTTOCA CCAACGATGC TTCCCCCCTG
GTTCCTATCA CIGAAGAAGA TGAAAAATCA GATCAGTCAG GCAGTAAGCT TCTCCCCAGGC AAGAAATCTT CCGAAAGGTC
AAGCCTCTTC CAGACAGATT TGAAGCTTAA GGGAAGTGGG CTGCGCTATC AAAAACTCCC AAGTGACGAG GATGAATCTG
GCACAGAAGA ATCAGATAAC ACTCCACTGC TCAAAGGATG ACAAAGACAG NAAAGCCGA

SEO ID NO:1603: (Length of Sequence = 263 Nucleotides)

AAGGCAAGAA ATTAGCCITG TEAAGAATTI TAAGTGTAAT GGGAAGCCAT TAGAGGGTTT TAAACAAGGA AAGATGTGAT
GTGACTTATA TICTAATAGG ATTGCCTTGA TICACCTATG GAGAATGGAT INNIGGGATC TCAGTACTGG GATACTGAGA
TCCCAGGGGG AAAATATCAC TAAGGTTGGA ATTGCTTTTC TGCACATTAA AAGCAATTCN CTTTTTCCTT GAAACCTCCA
TGTGATGTTA ATTAGGGTAA ATG

SEO ID NO:1604: (Length of Sequence = 260 Nucleotides)

ATGAAGACGT ACGACTTATT TITGIGITCT GAACATAAGT NCITIGICAC ATAAAATGIG CTATGAATGT TGAGTITTAA
ATACTCGAGC GGIGACTCAC GCCTGTAATC CCAGCACTTC GGGAGGCCAA GGCGGGCGGT TCACCTGAGG TCAGGAGTTC
GAAACCAGTC TGGCAAACAT GGIGAAAACC CCGTCTCTAC TAAAAATACA AAAGTAGCGG GGIGTCGTGG CGTATGCTGG
TAATCCTAGG GTTCCTGTCA

SEO ID NO:1605: (Length of Sequence = 290 Nucleotides)

GACAGACATT CAAACCATGG CAGGTGGCAA GAAGTATCAA ACTACTAGAT CCTTGGGATT GINCITTGTA CTGGGGTGTA
TITTITINCCAA CAATCCTAAA AATCATATGA ATAGAGATAG CAATATATAT CINACCCATT TGGAAATGCA CAGAGATTCA
GGAGTGTTCA CATAGAAACA GAAGATCATT GGCTTTTGTC CATTCCCAAC GCCAGNAATC TGTTTTCCTT GACTCTTTTT
GATCTGTGTT TCTGAATGIN TTGATATACT GCGCCTACTG GGTGTGCAGG

SEO ID NO:1606: (Length of Sequence = 290 Nucleotides)

CTCACTIGGG TACTACAGIG TGGAAGCIGA GIGCATATGG TATATITNAT TCATTITTGT AAAGCGITCT GITTIGIGIT
TACTAATIGG GATGICATAG TACTIGGCIG CCGGGITTGT TIGITITTGG GGAAATITTG AAAAGIGGAG TIGATATTAA
AAATAAATGT GTATGIGIGT ACATATATAT ACACACACAT ACACATATAT TATGCATGIG GIGAAAAGAA TIGGCTAGAT
AGGGGATTTT CCTGAACACT GCAAAAATAG AACGTAGCAA AATGGCTTCA

SEO ID NO:1607: (Length of Sequence = 365 Nucleotides)

GCTCCACTGA CCAGCTGITC CCTGTCTCTC CTTCTCCTTG AGCCTCCTC TTCCCTGAGA CACAATAATA TTAAAATTTG
GCCAATCAAT AACTCAACAA TGGTGTCTAA TAATTGTTCA GGTGCGAGGA AGAGGCATAC ATCTCTCACT TTAAATCAAA
AGCTAGAAAT GATTAAGCTT AGTGAGGAAG GCATGTCAAA AGCCGAGACA GACCAAAAGC TAGGCCTTTT GTGCCAGTTA
GCTAAGATGT GACTATAAAG AAAAGCTGTC GAGGGAAATT TAGAATGGTA CTCCAGGGGA ACACACAATG ATAAGGAAGC
AAACAGCCTT ACTACTAGGA TATGGGGAAA AGTTTTCAGC TTTGG

SEO ID NO:1608: (Length of Sequence = 294 Nucleotides)

CTCAGGAAGC CICTCTTTCT TCACITACCA TTACTAACTC TCCAAGCATA GAAATCCCTG GGAATTGCGA GAATAACTCC CACTATTTTA AAATTTATAT TCAGATTTGT TTCGTTTCAT AAGACACATC AAACAGGCCT ATACAAAAGG TTTAGGAAAA GAAAACAATG GTGAGTCCCG GCCCTCTTCG AATTCACTGG CACCTCATGC AAGTNTAGGA AGGCACGCTG GATCGTCTAT CTGATTCCAA AGCTGTCCTT TGCCATCTCA TCCCTTGGNC TGCCCCCCAA CCCT

SEO ID NO:1609: (Length of Sequence = 393 Nucleotides)

CAAAAGCTAA CTCTTAATAA GAAGATGAGG AAATAAAATC AGTTCAAAAG GGAGGAATAT GCATTCCCAG AATTAAAGGA CCCCGGGTCC AGTTGAGGA GGACTCTTGG CCAGATACAA GCCCCTTGTA TAAINCTCAA GAGGGAGGAG ACCTTATTIN CTCCTTINGAG GTGTCTAGTA TGAAANCTGC TTATTTTGAA ATGTGATTCT AGCCATTATC AGGRGCAACT GCAGATAATT CCCATTTACA GAGGAATGCT GCTAACAGGT GTGGGRGGGA GCAGCGACAN CGNAAAATTC TGCTGTCATA GGTCACGTTT ATGTTGGTTT TCTTTGAAAA TCAAGGGGTA GAAAATTTCA TGCCTCTAGA GGAGAGAGG GAAACACATG AGG

SEO ID NO:1610: (Length of Sequence = 464 Nucleotides)

TGTCTGTATT TATTAAATTG CCTTTACTAC TTTTTAGATGG CCATACGTTT TCAAAAGCAA AGACCTAGTA AGCCATTTGT
GTTCATTTGC TAAGCTATCT TAGGTACAGG TCCAGATTAT AAATGTTACC TGCTAATCAG AGAGCAAATT TTTAAATTAA
TCACTTGTAA ATCCACATTA AAAGAAAAAG AAACTTAGAA AAACACATAA ATTTCTTTTG TGATCCCACT ATTCAGGAAA
ATCCATTGAA AAAGCAGATG ACTTATCCGT GTTAAATTTT TAAAGNCCCT ATTTAAACTG TCATGTAAAT TCTNATTTAT
CTAATTTTTT AAAACACATA TAGNNTTTTA CTCTCCAGTT CCATAANTGN CTCANTTCTG GTGANGGTCA TTACAACAGN
CATTACGNGG GCATATCGGN NTAAAANGGC CNTGCGGTCC TGNATCNGAG GNGGGGTTAA GGTC

<u>SEO ID NO:1611:</u> (Length of Sequence = 465 Nucleotides)

ATAATTTAAA GAAAAGAGAA TICTACAATG TAAAACCCTT TAATATAAGC TGTTTTAATA ATTGGAAAAC AGAATGANTA
MTGTTTTINT TIGTCATGCC CAATTATITC ANCAAGTTTT TATTAATAAC TIGCTACATG GTAGGCACAG CIGTAGGIGT

TOGAGATATA GAGGTAAACA AGTCTGACAT GATCTATGCT ACCACGGAGT TCTTATTTTC AAAGTGGAAG GTAGAAAATA
AATAAAAATG ANCTAGAAGA GCAAAGTGCC TCTGAATGAG CATGCAGANG CATGTTTTCA AAATGTCTGT GNGTGGGATA
AATAGATCAG CAACACACCA GGCCATGCAA TTTNGCAGCA AATCACTTCT GCAGTCTAGC TGCTGTTTTT CCTACTCTGG
AATCATACTC CCCCCTTCGG TCATCTNTGC CAGTTTCNCT GNGCTTCACC CTACCCTCCN TTTTN

SEO ID NO:1612: (Length of Sequence = 458 Nucleotides)

ATGAAATTGA ACAAACCTAA AGAGAAATGT TCTTACCGTT CCACAGGAAC CAGCTTCTTC CACTGGGCCA CTAGGTCCCT
GGCAAAGCTT CCAACATGCT CGIGITTTCG CAAGCTATIT ACTGTTTTCC CAACCCCAGT CTCCTAAAAT TTGACAAAGT
AATTGTTAGA GGGGTCTGGA ACTAGGCTAA CGITTTTCTA AAGAAATAAG GCTTTCTACT TTGAGAAACT CAACAAGCAA
TACTTCCTTC CTACAACATA CCCTGCAAAT CTTAACACTA AATTACTTTG TGTCTATCNC CCAAATCTCT AATGACACAC
AGTAGCAAAG NGTACCAAGT TCAGAACTTT AATAACACNG GINATTAGGG CAGGTGTTAG GGCACTAGNT AAGNGCTTTG
CATCAGTTCT GGATCAGNCT TTTAAATAAC CCCTTAAGNG GGGNINAGNC CCTTTTTT

SEO ID NO:1613: (Length of Sequence = 322 Nucleotides)

ATGTGGAGAT TIGITGIGGG CTAGGGCAGT CCAGAGGAGA GATATGIGGC AGGACAAGTC TCTACCCTAT ACAAGTNCTT
CCGGCAAGCC CTCAGCACAT GACATAGGCC CAGAGAAGGA TGCAAAGAAT TCTGGTCATA AATTGTTTTC AAATATCAAA
TAAATCATAT GIGCACATGC ACAAACATGC CTTCACAACT GAGTAAAACC AGACTCACCT TCAAATATAT CAACAGTTTT
NTCAAGCGCC GITAAAAATC AGGCATCGGA CCTCTGGNIN CGAGAGCTGG TTINATGGGG AAGTTAGATC AACCCGTCAT
CT

SEO ID NO:1614: (Length of Sequence = 280 Nucleotides)

AGIATCAAGG GATAAAATAT ATTTTTAATT TIGIATTICA CIIGAAAATT GIAAGGNCCA TITTATAATG TATIGCTIGC AAAATAAGIC AIGGAAGCCC TGAAAAATTA GICAATICAC TAATCAAAGA AACATATATT AAAGACCTAC TATGCATGAG GCACCATGCI AATTGCTTIG AAGAAGACAA AGITGAATTA GACAGGGNTC CCGTTTACAA GNTATTTACA AIGCAAAGGG GGATACAAGA CATATAAAAG GCTATGGAAC TGCCCTTCCG

SEO ID NO:1615: (Length of Sequence = 393 Nucleotides)

GOGTGGTGGT GOGTGCCTGT AAATCCCAGC TACTACGGAG TCTGAGGCAG GAAAATCCCT TGAACCAGGG AGTCGGAGGT
TGCAGTGAGC CGAGAGCACG CCACTNCACT CCCGCCTAGC GACAGANTGA GACTCCGTCT CAAAACAAAA CAAAACAAAA
CAAAAAAACCA AAAACACTGG GAGTCCCAGT TTGTAGGAAA TCATTAAGAT TTTATTATTT GAGCTCCAGA ACGAGTGAGG
ATGACCTGAT AATTTTGGTT TGGCTCAGGT TGTAATGTGT TTCTGTTTTG CTCGATGACT ACTAGAACAG TTCTCAAACT
GTGTGGTGGG TAAGAATCAC CTGGGGGACTT TGACCAAGTN ACATGTCTAC AACACCGGC CCCTACAGGC TCT

SEQ ID NO:1616: (Length of Sequence = 353 Nucleotides)

CCACCCCAGC CICCITGGAG CIATCCCITT CIATCCCCCI CCATCCAGCC CCIGGCCACC ACCATIATAT CIATTCIGGA ATTCCCACAG GAAAAGCAGG CACTITATAA ATCAGCGAGG GATTCACGGC GAAAATGAGAC TGITGGIGAG TNATGGCGIN CCGGGITGCT TGCCGGGIGCT GGCCCCCGCC GGGAGAGCCC GGGGCAGAGC AGAGGIGCTC ATCAGCACTG TAGGCCCGGA AGATTGINIG GINCCGITCC TGACCCGGNC TAAGGTCCCT GTCTIGCAGC TGGATAGCGG CANCTANCIN TTCTCCACTA GTGCAATCTG CCGATATTTT TTTTTTGTTA TCT

SEO ID NO:1617: (Length of Sequence = 227 Nucleotides)

TITICTICCAT GCAACANICT GNAGACITAA GIGGCTITCT NCIGIACINC CATAGAACCC ACCCAGTACA TACCTCCAGT
GNAGCACTGA TITITATGCTA TACATATGAC TGTGTGTTCA TCTCCTCCAC CAGACTGTGA GTCCCATTGG AGTAGGAACT
AAATTTTNTT CAACACTCTG TCTTCATCAC CTCGTGTAGT ATCTTGTACA GAGTAGATAA TGATTAA

SEQ ID NO:1618: (Length of Sequence = 362 Nucleotides)

GGAAGGTTTT TAATGCATGA NGIATACTTG TNATCCTGGA GGITGGAAAA GATTCAGTAA AGATAAAGTT TGGCAAAAAT
GATTCTCTCC CTAGGATTTG GGGATATGTA AATCAAACCA AAGGCACATT CTGCAGCTCA CAGCAACCTT CATTTTTTGT
CCTAGATTGA GTTATCTATC AAGAATCATT CATTCCCTCT CAGCCCTTGC AACTGTTTCC TATGACTTTG GACTTGGCCA
TGCAACTTGC TTTGGCCAAT ACAATGTGAG TTAATGTGCT TTAAGTGCAT GTAATTAGGT CAGTCCCTCC CTCCTTGAGC
TTCAACTCTC CACCATGAGG ACAACATTGC CCTCCTTCCT GG

SEO ID NO:1619: (Length of Sequence = 344 Nucleotides)

GCAACCTCAT CCCAGGITCA AGINATICIC CIGCCICANC CICCIGAGIA GCIGGGATTA CIGGCGCACC ACCACACCCG
GCTAATITIG TATITITIAGI AGAGACAGGG TITICGCCAIG TIGGCCAGGC TGGICTIGAA CICCIGACCI CAGGIGATCC
ACCCACCICA GCCITCCAAA GIGCIGGGAT TCCAGGCAIG AGCTACTGIN TCGGCCCAAA TCITICTITAA GITGIGICIG
GCCITIGGCA GAAATAGCCA CAAAGNCAGG GIAGGAACGI TITIACTCTIC AAGIGATGAT GGCATCCGAT AANCITITIAG
AGGGAGGITT TIAAAATGCA ACGT

SEO ID NO:1620: (Length of Sequence = 379 Nucleotides)

GCCAGCCGAA GCTCCTCAGG CTCCCACCCT CTACAAGCTC CTTCTGCTCC AGCCACACTC ACCAGGCCG ÄGTTCCCACC
TAGCACCTTC CCTGGGAATN ATCTCCCCCT GGTTGGCTCT TTCTACTTAT TCAGCCTCAA ATGTNATCTC CACTGANAGG
CCTTTCCTGA CCTGCTGAGC TTGATTCCCT CCCCTCCCCA GTNACATTAC TCCGTGTTAT GGTACCCATC CCTGTCTCCT
TAGCTTGTTT TTGTCTGTAT TGGCTCTTCC ACTAGACTGT AAGCTGCATG AGGGCAGGGG ATGTCTGTTT AATNCCAGTT
GCTCAGGATA GTGTATGGCT CGTGATAGAT GCCTAGNACA TTTTAAAATG GGGACGGAT

SEO ID NO:1621: (Length of Sequence = 283 Nucleotides)

GATTTGGGG CTCGGGGAGG CAGAGAATCT CTTGGGAGTC TTGGGTGGGG CTGGTGCATT CTGTTTCCTC TTGATCTCAA
AGGACAATGT GGATTTNGGG ACCAAAGGTC AGGGACACAT CCCCTTAGAG GACCTGAGTT TNGGAGAGTG GTGAGTGGAA
GGGAGGAGCA GCAAGAAGCA GCCTGTTTTC ACTCAGCTTA ATTCTCCTTC CCAGATAAGG CAAGCCAGTC ATGGAATCTT
GCTGCAGGAC CTCCCTCTAC TACTTCCTGT CCTAAAAATA GGG

SEO ID NO:1622: (Length of Sequence = 356 Nucleotides)

TTAATTITAA AGCAGATAAT ATTICAAATA TTITCTITGA AATAGACCAT TIGICCIGCC TIGAAGIATG TTAGTACATT
TTAAGAAAGT CAGTGGGITA AGGAGICAGT GCTGTTAGTA TTCATGCTIA AAACACTICC CTICTACCTA CCCTAATAAA
TGAGGGGCTC AAGAGAAATA TTICTAATTC TCTAGCGACA TGGCTAATTT TITTTITTAA TGTATTTTTG TATTTTTAGT
ACAGATGGAG TTICACCATG TIGGTCAGGC TGGTCTCAAA CTCCTGAGCT CAAGTGATCT GCCTACCTCA GGCTCCTGAG
TCACTGAGAC TGTAGTTGTG TGCCACCATG CCAGGT

SEO ID NO:1623: (Length of Sequence = 361 Nucleotides)

TITURAGACAG AGTOTOGOTO TITUGGOCCAG GOTGGACTUC AGTOTOCATA TOTOACOTOA CTGCAAGOTO CACCIOCOGG GTTCACGCCA TICTCCTGCC TCAGCCTCCC GAGTAGCTGG GACTACAGGC GCCCGCCACC ACGCCTGGNT AATTITITGT ATTITTAGTA GAGACGGGGT TINACCATGT TAGCCAGGAT GGTCTCGATC TCCTGACCTC GTTGATCCGC CTGCCTCGGN CICCCAAAGN GITGGGATTA CAGGNGTGAG CANCCGTGCC CAGCCGINAA GITAAGATAT TITAAAAANA TCTCTGCAAG TTGAGGAAGI NITTCAGGAC TCITTCCTGC TTAGTCTCAC T

SEO ID NO:1624: (Length of Sequence = 350 Nucleotides)

CITTGIGAGC TITTIGACCT GCGGGATCCG AGCCAGATIG ACAACAATGA GCCCTACATG AAGATCCCTT GCAATGACTC
TAAAATCACC AGTGCTGTTT GGGGACCCCT GGGGGAGTGC ATCATCGCTG GCCATGAGAG TGGAGAGCTC AACCAGTATA
GTGCCAAGTC TGGAGAGGTG TTGGTGAATG TTAAGGAGCA CTCCCGGCAG ATCAACGACA TCCAGTTATC CAGGGACATG
ACCATGTTTN TGACCGCGTC CAAGGACAAC ACAGCCAAGC TTTTTGACTC CACAACTCTT GAACATCAGA AGACTTTCCG
GACAGAACGT CCTGTCAACT CAGCTGCCCT

SEO ID NO:1625: (Length of Sequence = 333 Nucleotides)

GROTTCIGIG AGACAAAGAA ATTATAAAGA TGGCAGAAAT TATTAGCGAC GITCTACCIC TATAATTCAC GITCCATGAA
TCAGTACTIC ATTITTITIT TATGGATGAA TTAATATTCC ACTGTACAAA TATACCACAT CITGITTITIC CATTCGACTA
GGTTAAAAAAA TITTTATTIT TATTTTTATT TITTTGTAGA GACGGGATCT CACTGTGTIG CCCAGGCTGG TCTTGACCTC
CTGGGCTCAA GTGATCCTCC CACCGTGGCA GTCCAAAGTG GGTAAACTGT ACGCTGGTCT GAAAGACCTT GCTGAAGAGA
GAAGAGGCAA GCT

SEO ID NO:1626: (Length of Sequence = 314 Nucleotides)

GACTGTCCGT GGACACTGGT TTTTAAGCCC AAGAACTGAA TATACAGTAG CAGTGCAGAC TGCCTCAAAA CAAGTTGATG
GTGATTATGT TGTGTCTGAA TGGAGTGAAA TTATAGAATT CTGCACCGCA GACTATTCAA AAGTTCATCT AACACAATTG
TTGGAGAAGG CTGAAGTGAT TNCAGGACGC ATGCTTAAGT TTTCTGTTTT TTATCGTAAT CAGCACAAAG NATATTTTGA
CTATGTTCGG TAAGNTTCAA AAATATATAG TGATTTGTTT TACTAAATAT AGTTTCAAAT TCTAGGCTCA GGGT

SEO ID NO:1627: (Length of Sequence = 375 Nucleotides)

CCCTGGGCAC CTGGTACCTG GGGACCTACA AGGTGGTGAG GGAAGGGTAC GAGTACATTC CTINTCCCTC TGACCTGGGC
GCTAGAAGGG CAAAGAACCC GAGCCTGCCA GCTTGGCCTC CTCCCACAGC CTCCCTCGGA GGCATGCCAT GCCAAGCACT
CTTTCTGTCT CTGTTCATGA ATAAAAGAGA TGGATGGGCT TATTCTTATA GAGAAGTGAA TTTCACTTAC TCCCCTGGCC
CGAAAAACTAG ACCAAATGAG GAACTGTTTT AGCTCATCAA ACTGTTATAT TTATTTTCAA CAATGAAAAC AACACAACAA
AGTGGAGTCA ATCCACTAAT TTTTTTAAAT CTAACACAAT TGTTTGCACA ACAAT

SEO ID NO:1628: (Length of Sequence = 434 Nucleotides)

TGCACAGGCA CACCICCACT CITIATATCA TITICICCAT CITICATTIC CCATCIGIAC CICCAAAATT TIGCIATGAA
TCIAATTCAT CITIGCICIC TCICCICCAT GGGIGCCITI GCITCIGCCA GICTITCITC TCCIGCCCCA CCCAAACTIC
ATGAATIAGI CITITCICCC AGGAGCICIG ATTICIAGAC TGCITTGAAA ATGCIGIATT CATTITGCTA ACTIAGIATT
TGGGIACCCT GCICITIGGC TGITCITTTT CIGGAGCCCT TCTCAGTCAA GICIGCCGGA TGICITTCIT TACCIACCCC
TCAGITTTCC TIAAAACGAG NACACAACIC TGGAGAGIGI TAAGNATAAT GITACTIGGT AATGIGIATT TATTGAGGAT
TGITGIGCIA AGAATGAGIA GGITAAAATA GGGG

SEO ID NO:1629: (Length of sequence = 341 Nucleotides)

CCTCAAAGCT GCAGGGAGGT GGGGGTGGCC CGCAGACAGG GTGGGGTCCG CATCCGGTAC GACTGACAGC AGCCTCCCT CTCCCACGGT GGTGCTTGTT TGGGGGTGGG GCCAAAGTGT TTGCCCGGCC CCTGACTGIN TCCTTCCGGA GCTGCCGAGG ACTGCAGAGAGA GGGCCTGGCT TGTCCCCTTCT AGGAGCAGCT GGGNNGGTGT CTTGCCTGCA TCCCCCTTCA ATGGTTGAAA

ATAATGATTC CACTTGTCAT GAACACCATG AAGGTATCIT GGCAGCCAGA GTCACTCCTG TTCCCGAAGT GGGAAACCIN GGGAGGGTCC TCAAAAACCCC T

SEQ ID NO:1630: (Length of Sequence = 380 Nucleotides)

CATAAAACCA TOCTACGATG TGCTGCTGCT GCTGCTGCTG CTAGTGCTCC TGCTGCAGGC CGGCCTCAAC ACGGGCACCG CCATCCAGTG CGTGCGCTC AAGGTCAGTG CAAGGCTGCA GGGTGCATCC TGGGACACCC AGAACGGCCC GCAGGAGCGC CTGGCTGGGG AGGTGGCCAG GAACCGCCTG AAGGAGTTCG ACAAGGAGAA AGCCTGGAGA GCCGTCGTGG TGCAAATGGC CCAGTGACCC CCAGACGCGG AAACCGGGTG GCAGCGCCCAG CCTGGGCCCA GGCATGGAAA CGGACAACCC CTAATCGCCT TAGCTACTGC TTCTAACAAC TCTTTTCCCT TGTGTTAAGG GAAACCAGGT TCAAGGGGGG

SEO ID NO:1631: (Length of Sequence = 383 Nucleotides)

AGAGGATITA TITIGGACAGG GCTGTGCTGA GAGTCCCACC CTCACCCCAC AATGGGCGG GGCACTGGCA TCGAACACCA
AGCTGAGTGA GAAGGGCTCC TCCAGGCCTC GCAGGGAGCT TGCTGGCTTC TCCTGGCTCA CAGCAGACTG GGCCCGACTC
CCATCGGAGG AAGGCCAGCA TCCTAGGGCA GCCAGTGGAG GGCTGGCAGA GGGCTGTGCC TNGAAGGTCA CTGTGCTATC
TTCCAACCAC ACTGTGTGAG TCTCAGATAC CATATGTGGA ATCTGCATCA GGAAGGTCAA CTTGAGGTCA TTTTAAAAGG
GATTCTTCCG GNAAAAGGAG CNCCGCATCG GGCGNCTTAA NCCGGCGTTT CGGTTCATCC CGA

SEO ID NO:1632: (Length of Sequence = 424 Nucleotides)

GGGAAGTGAG CTCCTGAACC AACTCTGAAG GAGACACCCA CTTGCTAAGC CAGTCTCACT CTAGGACACC TGCCTAGCGA
CCAGCAAACC TGGAATGAAA GGGCAAGTTC CTCAGTGCCC CCTCTGCATC AAAGGGAGTG GCTCTGCCCT CTCTAGTCTC
TGACTACCTG CTTAGTGATT TTTGCTTCTG TGCTCCCAGA CCCAAGAAAA CCACGTCTCT TTTCTTCCTT CATCGACTCA
TCCCCTTCTT ACCCTATATT GTCTCCTCCA CTTCCTGCCT CTGCTGGCCA GGCTTAAATC TGGGCCACCA GCCTTCCTGG
GACATACCTA TTTCCGCCAAC TGAACCTTCC CAACCCCTAG GAAAACAAAG GTATTTTACA AGGCCTCTGG ACCTTGACCC
AAAGAGGCCAT GNACCATAAT TACT

SEO ID NO:1633: (Length of Sequence = 417 Nucleotides)

TITITICIAC AGCATCITIT TATIGICITI ACCATTACIT TAAIGCATIT TAAAATITAT CIACATTAAT TGGGAACTAT
TIGCATTITI TICAICCICT CICICTITIN CITIINCITI TITIGGATIT GICTIGGCCA GAGAGGITCI CCAACACCCG
GGIGGACTIG GAATTITITIA TCAGCIGCAA TCIGAAGACT TGICITIACT GIGGAATAGG TGACATTCCT TTAGGACCTC
AGAAGCTCAA GIAGITIAAT GCCAAGICIT TCCAGAGCCT CACICICITI TATITITITAA ATTAGAATIG TGATTIATIG
AACNCITACC ATGGGGTTCA TATAATTINI NAAINGANCA GCITTATIGA GGIATAATIC AATACCCCIT TAAAGNATGI
AACCCGTGGG TITAGAC

SEO ID NO:1634: (Length of Sequence = 423 Nucleotides)

AATATCCCAA ATGIGCAATG CATCACCIGA GACAGAAGGC AGAAAGCATC AAGCTCTCIG TITATCCCAA TICAATGACA ACCAGAACTT ATTITTTITIG AGATGGGGIC TOGITCTIGIC GCCCAGGCIG GAGTGCAGTG GGGCATTCAT GGCTCATCGC AGCCTCCAAC TCTCAGTCTC AAGCAACCCT CCTACGTCAG TGTCCTGAGT AGCTGGAACT ACAGGCATGC ACCACCACAC TTGGCTCATT TTTAAAAAAAT TTCTTGTAGA GACAGGATCT TGCTACATTG CCCAGGCTTG AGGTGCCGTG GTGCATTCAC AGCTCACCGC AGCTCAAACT CTTTGGTCTC AAGCGATCCT CCTGNCTCAG CCTTCTGGGT GGCTGGGCCT CAGGCATACA CCACCATGTC TTGGTCAATT TCT

SEQ ID NO:1635: (Length of Sequence = 384 Nucleotides)

CAAAACTCAC TTTGACCCCA TTAAGAGGCA AGCCTGGCAC ATCTATCCCT GGGCCTTTAG AAAGCCATTT GCCTCAAATG
GCTATAGGGT TGTGGGGTGG AGGGAGGAAG GGCTGGGAGG GAGTNGGGAG GAATTGCTAG CTGTAGTGTG ACACATTGTA
GTGTTTGCCA GGAAATGAGC CAGACATGGT GGTGTAATGCC TGTAGTCCCA GCCACCCAGA AGGCTGAGGC AGGAGGATCG
CTTGAGACCA AGAGTTTGAG CCTGCGGTNA GCTGTTAATG ACCACGGCAC TCAAGCCTGG GCAATGTAGC AAGATCCTGT
TNTCTACAAG AAATTTTTTA AAAATTGAGC CAAGTTTGGG TGGTGCATGC CTGTAGTTCC ACTA

SEO ID NO:1636: (Length of Sequence = 362 Nucleotides)

CAAAATGACT GACTACAGCA ATGCCTTCCG TGTGCCCCAC ACATCATGAG CACCGCAAGA GACAAAAGAT TAACTATGAA ATATTATGTAAT CTAAGCAAGC CCACCACATAC ATATTTTTGG GGATTTCCCA CCATCCTGAA TAGTATCACT GCAGTTGACA CAACTTCCAG GGAACTGCAG AGTAAGTGCT TAATATTATC CACGAGAAAG CAAAACTAAA TATTAGTGTG CACATTTCTG AATGAGAAAC TAATTGCTTC ATTGATTTCA ACAATGTAGT GGNAGNAAAC TATTTCAGAT CTCTACAATG CCTAAATGCA TTCTATTTAA ACTCAAGGTA CTATTTTCAT TTTTACCATA CT

SEO ID NO:1637: (Length of Sequence = 205 Nucleotides)

GGCGCCCGAC GAGGCTCAGA CCTCTINTAC GNCGACTACT ACGAGGACGG CGAGGTGGAG GAGGAGGCCG ACAGCTGCTT
CGGGGACGAT GAGGATNACT CTGGCACGGA GGAGTCCTNA CACCACCAGA ATAAACTTGC CGAGTTTANC TCACTAGGGC
CGGACCCGTG GCTCCTTAGA CGACAGACTA CCTCACGGAG GTTTT

SEO ID NO:1638: (Length of Sequence = 253 Nucleotides)

CACTCAGGCT CACCGTCCTG CTCTCTGCAC CAGCCTTTCC AGAGCATNCC AGINCTCATG GCTTCATCTG TTAACTGTTG ATCACTTCAG TCCTGATTTT TAGACCTAAA TGGTTTCCTT AACGCCATTC TAACTGCCTG TGACTCATTT TCACTTACAG TGTTTATTGT AACGCCAAAC CAACAAATCA CAGGTGCTTG CTTCTGTCCA TAAATCTCCC CAGTCTAACT TTTTTGTCATT CAACATGTCT CGT

SEO ID NO:1639: (Length of Sequence = 360 Nucleotides)

TGROCCCAAG GACCCTATCG TCAATGTATG GTACTCTGTG AATGGTGAGA GGCTGGGCAC CTACATGGGC CATACCGGAG CTGTGTGTGTG TGTGGACGCT GACCTGGGACA CCAAGCATGT CCTCACTGGC TCAGCTGACA ACAGCTGTING TCTCTGGGAC TGTGAAACAG GAAAGCAGCT GGCCCTTCTC AAGACCAATT CGGCTGTCCG GACCTGCGGT TTTNACTTTG GGGGCAACAT CATCATGTTC TCCACGGACA AGCAGATGGG CTACCAGTGC TTTTTTTGGAC TTTTTTTTGAC CTGCGGGATC CGAGCCAGAT TGACAACAAA TGAGCCCCTA CATGAAGATC CCTTGCAATG

SEO ID NO:1640: (Length of Sequence = 321 Nucleotides)

GIGGGACGCC CICTGCCTIG TCCTGAGAGC AATGICTTCT CCATGGGGCA GCATNGGCCC TGGATGGGCC TGAGCATAGC
AGACCACGTG GICACATGTG CATGTGTGGA CATGTGTGCA TGTGTGGATA TGTATGCTCC TGAGTGTATC TGCATGTCCT
NCCTGCACAC ACAGTGCTCC CCTCCGATGC TGCCAGCCTG TGGTGGACTT CCTCTTCTGA CCCCTTTCTT GCCNCCGGNC
TGTTTTATCA GTGAAAGGAC TTAACTAAGC AGATCTCCAG GTTCACCTTN TGGAACTCAG CTCAAGGINA GCACAGCAGG
T

SEO ID NO:1641: (Length of Sequence = 266 Micleotides)

GGTGGTGCCA CTGTCGTGAT AGTTTTTCCC ATCTTAGTAG CCCNACCCAT AATTAATGCC TACTCACATC AAGTTAGCAC CACTCAAATG TGGGCCATTC ACAGGCAGCC AGGGATCCTC TTGGNCCGTG AGGTTGGGGG CTTNCATCAG AATGCAAATC

TROCGAGGOG TGAAGCACAA TITAKITCAA CTGCCATKIK TICCITCACA GTAAGRCCIT CTGGRGGAAG GAAGCAGTGT GITTGAGITA TACCITAGGC CAAGCT

SEO ID_NO:1642: (Length of Sequence = 295 Nucleotides)

AAAAGCCCCA GCCTCAGGAC CCCGGTCACA GGCACCCGG GGTGGGGGTG ACCAGCAGCA GTTCAGAGGC AGGTGTGGGC
AATGTGGGCC TGAGTCTCCT NCCCACTCAC GTCACTNCCC GCGGGGACAC AGCGGCATTT NTGGGGCACT NGGCATGCCG
GGTTCCTAAC CTCAATTATT CATTCTGCTC TCAGGCACCT CCTGACGAGA CCCTGGCCCA GGAGAGCTCG GCTCGGGGAC
AGAGGAATGA GACTCAGTGG GACGCAGAGN CCAACCCCAT CCCCACCCCT GGGCT

SEQ ID NO:1643: (Length of Sequence = 359 Nucleotides)

ATCATTIGGIA GITTAAACIT TTCATCTAAT ATTAGATTIC ATGCAGGATT TTATATCTAA TTACTCTIGGC AGATGGCCTT
TAGAAAGITC AAAAATAAAA TECAGCAATT CATATTIGGCA GATTTACTAT TGAGACCAAT GCTTTCTTAA CTAAAAGGTT
TTGTTTAAAA TCGTTAGTTT AGGAAATCTIG ATAAAGATTT TTGAATATCA GAGCGTTTAA AAGAGATTCT TACTTTACAT
CTGGCATATT TCTTGTGTTA CATATTATAA TTCCATTIGGA ACATGGCTGT CTGTAAAACT ATGTATATGA TCCGGAAGAG
ACTCAAAATTA AATTAAGGTT TAACAGCCAT CAAGTTCAT

SEQ ID NO:1644: (Length of Sequence = 293 Nucleotides)

TGAACCCGGG NEGCGGASTT GCAGTCAGCC GAGATGGCAC CACTGCACTC CAGCCTGGGT GACAGAGCCA GACTCTGTCT CAAGAAAAAA AAAAGAATTA AAAGATGTGA ACAAAAGCAA GAAAGTGCTG TATGAACGAA ACGGAAATAT CAATGAAGAG AAATAAAAAT TATAAAATTC AGGAAATGAG ANGTACANTA NCAGNAAATT CACTGGAGAG ATTCAAAAAGC ATATCTGAGC ACGTAAAAAAA AGTAGTGAAC ATGAGATAGG TCAAGGGAAA AGTACTGAGT CTG

SEO ID NO:1645: (Length of Sequence = 332 Nucleotides)

AAAAGCTGGA TATTAGGAAA TGTGAATATT AATTCTGAAT TTGTTACTGA CTCAGGATGA CCTTGCATGA TGCATCCAAC CTTCTTTTCT CTATATCAGA AAACTAAAGA ATAAATGTAA CATCACATTC TTTTCTCCTT TGGGACAAAC AACTATGTAC AATTGAATAA AAATGAAATT GCATAAAGTTG TGGATAGAAT ATGTTTGGGT TGGTTTGAAC TTAGCACACT GTTTAATAAT TCAACATTTT TTATACCTGT GCAATAAATT TTTAAATGAT GTCTGAAATG CTTTGAAATC TTCAGAAACA GGTTTATAAA TGGCATAAAA AA

SEO ID NO:1646: (Length of Sequence = 210 Nucleotides)

GAAAGINCTC CCAATCACTC TCTGCACAAT GAAGTGGCGG ATGACTCCCA GCTTGAAAAG GCAAATCTCA TAGAGCTGGA AGATGACAGT CACAGCGGAA AGCGGTGGAA TCCCACATAG CCTGAGTGGC CTGCAAGATC CAATTATAGC TCGGATGTCC ATTTGTTCAG AAGACAAGAA AAGCCCTTCC GAATGCAGCT TTGTTAGCCA

SEO ID NO:1647: (Length of Sequence = 246 Nucleotides)

TCCACTCCAA GGGTTTCTGA CCCAAGAGGT GGGGACCAAA ACCATGCATT CCTAAGAAGT CCCCAGGTCA TGCTGCTGTT GCTGCACTGA GGACCACACT TTGAGAACCT GTGCTCTAAG TGAATACTTG GAAGTCGTTT CAGGACATGG GGCATAGAAA CTNAGGAGTA GCTGAGAGA AAATNAAGAG AAGCTGAGAA GAAGCTGAGA ATCCTCACAG GAGCAGACAG AGAAATGTGA AGGGTT

SEO ID NO:1648: (Length of Sequence = 338 Nucleotides)

TCCACTOCAA GGGTTTCTGA CCCAAGAGGT GGGGACCAAA ACCATGCATT CCTAAGAAGT CCCCAGGTCA TGCTGCTGTT
GCTGGACTGA GGACCACACT TTGAGAACCT GTGCTCTAAG TGAATACTTG GAAGTCGTTT CAGGACATGG GGCATAGAAA
CTGAGGAGTA GCTGAGAGGA AAATGAAGAG AAGCTGAGAA GAAGCTGAGG ATCCTCACAG GAGCAGACAG AGAAATGTGA
AGGGTGGGGT TTTATGTNTG GGAAAGGGAC CCGAAGCCCA GGCTGAAGAG TTTTAACTTT GGGCCCAGAA ACTCAACCAT
CAATGGAAAC AGGGCAGT

SEO ID NO:1649: (Length of Sequence = 275 Nucleotides)

GCACCITINAG GATTGAGACC CGGAAGGCIT CAAAGGCIGI CGCAAGGAGG AAGAACITGGA AGAAGITCGG GAACICAGAG TITIGACCCCC CCGGACCCAA TGIGGCCACC ACCACIGICA GIGACGATGI CICITATGACG TICCATCACCA GCAAAGAGGA CCIGAACIGC CAGGAGGAGG AGGACCCIAT GAACAAACIC AAGGGCCAGA AGATCGIGIC CIGCCGCATC INCAAGGGCC ACCACITGGA CCACCCGNIG CCCCIACAAG GATAC

SEO ID NO:1650: (Length of Sequence = 270 Nucleotides)

AAAAGCCAGA GGGATGAGAA TGAGAAAGTT AAAAGGGAGG TCAGGAAAGC CATCITITAG GAGAAATATA AATNGACAAT SCITTAAAAA AGGAGCTGCC ATCATATTAT ACCCTGACCC AGCTGGATAC GAACAAATTC AGCCTTGGCA ATGCAAGTCT TACATCTATT TTATATAGAT TGTATAAAAG AGAACTGGAA GCATTTTCAA GAGGGGTATG TATGTGTTTG TGTGTGTCTG GTAATTAATG AAAGAGAGGC TATTGAATTT

SEQ ID NO:1651: (Length of Sequence = 372 Nucleotides)

TCTIGCTTT TAATTGIATT TCTTAACACT AGAATTTCT ATTTCAAGIT TTIGIACGIG GCCTIGCGIC TCCTTAGIAC
ATTTTATAGI CGCTGTAAGI TGATTCCATT TTICTIGAAA TTGAATTCTC ATCTGACCIA ATTTCTTCCI TGAATCCTAC
ATCTCACTTT CTCAATGGAC GCAGTGACGC AATGAAGCAT CCAGCAAAGC TTTTGTTGTT GATTGTTTAG GACGTCACCC
TGTTTTTGTT GAAGTTGTCT CACAACTACT TCTCTTTCTG CTTTCTCTCT TTCATATTGA CATTGTTTTT CTTTTCAAAT
GGATTAACTT TATTGATCAT CCTCTTGTNC TTCTAGCAAA AGACGGGTGC TT

SEO ID NO:1652: (Length of Sequence = 314 Nucleotides)

TTTCTGAGIA TGCTGCACTG GATTATTAGC ATGTTAAATA GTCAAAGGGA CTGGAATAAA CATCAGGAAG ATTTCATAAA GTGGTGTAAG TAGAAAAAAA AGGTTAAACA ATGAGCTGCA TGTTGATAAG TATAAGACAC TGATCCAAACT GGTGGCTTCT GAACCATGAT ATTACTTAAN CTAGAGTGTT AAGGTCAGCT TAAGTCAAAA TAAAACAAAG CTTCCAAACC CTCATTTTAA ACCAGTAGA TAATAGATGA MTCTTGTATC TTGGGAGATA GTACAAGCCA AANGTTACAG CTGTGTTAAA ACCT

SEQ ID NO:1653: (Length of Sequence = 323 Nucleotides)

TAGATATGAT GECTGGAGCT GCAATAGCTA ACTTGCAACT ATGAGGAACT ATAGGACTIT GGTCTTAACA TTCCTGAGCT
CCTGAATCAA TACTTTAACT ACCTTCTATG AGACTTCTTG TCACATGAGA AAAATTAAGC CCCAAATTAA ACCCCTGCCT
TINACTGTAA CTCTCAATTG AGCATAATTC CTAAATGNIT TAATCAATTC TACTCTACTC TGGCATGATT TINAAGGCAT
TAACCATAAT TTCCTTCCAA TCTAAAAAAGG GAACTANTAC TTACTGGAGT ATCTAGTATA CATCAGATAC TGTGTATATA
GGC

SEO ID NO:1654: (Length of Sequence = 352 Nucleotides)

ATCTTGGCCT GCAGGAACAT GGCAAGGCG AGTGAAGCAG TGTCACGCAT TITAGAAGAA TECCATEAAG COARGGTAGAA AGCAATGACC CTGGACCTCG CTCTGCTCCG TAGCGTGCAG CATTTTGCTG AAGCATTCAA GGCCAAGAAT GTGCCTCTTC ATGTGCTTGT GTGCAACGCA GCAACTTTTG CTCTACCCTG GAGTCTCACC AAAGATGGCC TGGAGACCAC CTTTCAAGTG AATCATCIGG GGCACITCIA CCITGICCAG CICCCICCAG GGATGITTIG GIGCCGCICA GCICCIGCCC GIGICATIGI GGGICICCIC AGAGICCCCA TCGATITACA GG

SEO ID NO:1655: (Length of Sequence = 325 Nucleotides)

AGGGTAAATT GIGAGACIGT TIGIATATAT INITIGITTA TATGITITIG TIGITGITAT GIGGTATATI TIATITATAA
AATGATAGAT CIGIGGGTAG GITCIGAGAA AIGAATAGCI IGIATTICCT TITITATGAA AGAAGAACAA AATGAAGITC
AAGGGAAAG TATCICCAGA AAGITTAACA TITICITATI AACCAACICA ITGATTGGCA IGIGAAACIT GAGATATITI
ATATAGCACT TITIAAATGA GGATCTAGCI TCACINIATC ATACAACCAC ATITAAAATA GCCAGGICCA IGGICATTAT
AGGGG

SEO ID NO:1656: (Length of Sequence = 285 Nucleotides)

GAGENTIAAT AGAATAGATC AAAGCAGAAT GCAGTGTGTT CATGTCATAG GTTGACTTCT CCAGGAAACC GACCCCAAGT
GGAAGGTTTA CATGCAGGTG GTTTATTAGA GAGTGATGTT GGGAAGAACA CCTGTAAGGN AAGAAGGGAG CCTGGGAAGA
GCAGNGGNAG AAGGTGAACT CTGATTCACT TGCAACAGAG TCCTAGGCTG AGTGCATGGG ATNCTGTAGA GTTGGGGATG
GACCTTCAGA GATATTCCAA ATAGAGAAAG AATTCCTGTT TACTC

SEO ID NO:1657: (Length of Sequence = 385 Nucleotides)

GACTICACIT TGCTTTTTC CCCCCAAGTA GAACTAATGC TAGCTTCCAG CTTGAAAGTA AAACTCCAGT GTGGAGTGAA
TTTTGTGTCT AATTATAAAC CTGTAACCAA AACTCAGACA TCTGGTACTG GTCTTTGCAT TGAGATTGGT CCCTGTAAAA
CCCCCTTTAA AAGCATATTG CATTTAGTAC AGAGCTCTTT TTTGAAAATGN AGGCTGGAGA TGTGCATTTT TCACGGTGTT
AACTGGTTGT ATCTTATTAG CAAGGAGATT GGGGGTTTTG AGTGTTTGCG TGGGTGGGTT TCAAATTTGC CAGGGAACC
AGTGGGCAGG CTGCTAGCAA GGCAGTGAGG AAGCTCTTGG CAGCCAAATG GGGTGCATTT CAGGG

SEO ID NO:1658: (Length of Sequence = 338 Nucleotides)

GATCAGGACC TCTTCTTCCT CCCAACACTG CCCCAAGAGC CCGTTGTTAA ACGITTACCA GCACACTACT GGGCTGTTTC
TCTACCACTT GATTGAAATG ATCCTTATGG AAGCACAAAT GACTCACTG TCACTAAATC CAAGGGACAA TTTTTAGTCT
CTATTTTTCT TCAACTCTCC AGGATGTTTG AGAGCTGATC TTTCCCTCCC TCTTGAGCCT CCTCTCCTGC CTGGCTTTTA
GGGGTCTCTG CTGACTTTTC TTCATTTCTA AACACATGTN CTCAGGGGGT CCTCAGCCCT GCAAGGCCNA TGCACTGGGT
ACCCAGTCCT GTGGGCCT

SEO ID NO:1659: (Length of Sequence = 346 Nucleotides)

AGIATGIGAA GICAATCACT TTTTATATGC AGATAATATG CGACTTATAA TGGAAGGTCA CGITTCAATA GCAAACAAAA
AAGCTATAAG TAACAAAGAA TAACAAAACT ATAAATGIAT AGGCTCTACA TAAAGAAAAC TATAATTCCA TAAAGGATCT
AAAATAAAAC GNGTAAATGG AAAGACAAGA TGTGTTGTGA GATACGAAGA ATCCATGATT AAGTTAGAGG ATTCTTGGAT
GACAGTAGAG TAGAAAGCAC CAAGAATGAG TCTGTATACC CAGAGAACAC TTACGCTGGT AGGAATCTAT CTCATACAAC
TATTATGGAG CTCTCAAAGT ATACTG

SEO ID NO:1660: (Length of Sequence = 240 Nucleotides)

GATAGAATAG CCAGCCITCC ACTIGAATGC ACTGCCATAT TGTCAAGCTG CATTCCTTAA GCATCACTTC TILAGAGGCCT CAAGCTTCTC GGGAATGTTT GATGACTTAA AGGGGAAATG AACAGGTTGC AATNATGCTT GTCAAGTTTC THCTTGTGAA CCTCTATTTG GACAATTCAC ACAAAAAAAG AAAGCAGCTC ATTTTCTAAT TCAGGATATT ATTTCTTTTT AAAACTGGTA SEO ID NO:1661: (Length of Sequence = 294 Nucleotides)

AGCACCICCC CIGAGGGCCA GGCCITGGAG AACOGATGA AGCAGCICIC CCIACAGTGC TCAAAGGGAA GAGATGGAAT
TATTGCTGAC ATAAAAATGG TGCAGATTGG CTGATTCATC CTGGGCCCTG GCCGATATGC ATATCAACAT TTATACATGG
AACTGTGAGA ACATTKTGCC AATAATCATT TAATATATGC CAAATCTTAC ACGKCTACTC TAAACTGCTC TAATGAAGTT
TCAGTGACCT TGAGGGCTAA AGATTNTTCT TCTGGTGTAA GAGCTCTTTG GGCT

SEO ID NO:1662: (Length of Sequence = 291 Nucleotides)

GATTITICATE AGGCARATNA AAGTAACCAC AGAAACAATT CAGTAATACT ACTAAGAGAG ATTAACTTCC CACTGGCCTT
GGAATAGCTA AGTGCATTGA TTTTKGTGTA GTTGTGAGTT TTTTTCTYTC ATTGATATTT TACGTATTKC TGGGGTAAAT
GTATTTTTWA CATGCATTGA ATGTGTAATG ATCAAGTCAG GGTATTTGGG GCCTCCATCA CCTTGAGTGT TTATCATTTC
TATGTGTGGT AACATTCCAA GCCCTCTCTT CTAGCTTTGG AATATATAGT G

SEQ ID NO:1663: (Length of Sequence = 345 Nucleotides)

GGCAGIGGGA CICICIGIGG ATAGACIGAT TCITGITTAG AAACAACAC AAAAAGAAGA AGGCAGGAAA GAAACICCCC
GGCICGGAGG AAIGICICIG TGAICCCCAT TCITGAIGGA GGGAGIGAAA AGGGGCCIGG NCITGGCCCG CIGCICICCT
GACAGAAACA GIAAGINACA CCAGGACAGA AGGCAGGAGC CCIGAGAACT CACGGCGCIC TGCATGGICT CCAGCCNNNC
ACCCGICICC AGCCACCCCT GGAGCGCCG TGGGGAGGCG GCAGAGGGGG CTTTTCGGAG GGCCCACTAT TNCCACACGI
CTTTCITTING ACACCCAGAA AACTT

SEO ID NO:1664: (Length of Sequence = 334 Nucleotides)

GTAAATAAGA AAGTGAAATA ATTCCTATAA TGTAAGGTTG ATAGAAGATA ATCATCAGGG TCAGAATTAA GAGGTCTTGT
GGTTTAGGAA GCATAAAATT ATGTAACTTA TTGTTTATTT CACTCAGAAA ATAAAAGTAT TAATGAAAGG AGTTAGAGAT
GAACAGATTG ATACAAACTG TTCTATGGTT TACAGCTTAA AAAATAAAGG TACATTTAAT GCTATGCATT TTGAGAATAA
TGTCTTTTAT GCTNTTCCTT TTTACATATG TATCTNTTTG TATTTAAGGT CAAAATAGAT TGACATTACT AATTACTTCA
CTATTAATAA TTAA

SEO ID NO:1665: (Length of Sequence = 310 Nucleotides)

TGIACINCIA TGAAGCATCC CITCCACATC AGATCAAAGA CATCITAAAG CCAGAAATAA TGGAGGAGAT TGTGATGGAA ACACGCCAGA GGCTITTGGA ACAGGAGGGA TAAGGAGGTG CICCAGAAGC ACGGGACTINT GGACCITGCA GGAGTGAAGA CTGTRATGTG TGGTCCCCCAT ATGTGGCTCA GCAAAGACTC GAGAGATCAT CCCTTTGTCT GCATTGACGG CCCTGTGACG GCCTCCAGCC CACAGGCCTG CTTTCTCCTG TCCTAACACC AAGCCTGGGT GGCAGATGAA CAGTGCTTCC

SEQ ID NO:1666: (Length of Sequence = 352 Nucleotides)

THITTITIA CATACAAASI TIGGATITIT ATIGAAATCI TGITAGGIAT CAAACAAATI CIGCITTCIT CAGATAAAAA
TATICICICA GATGICICCA GATAACIGCI AAGICIAAAT TGGICCTICA ATGICTIATI TITATIGICC TCGIGAAATG
TICATATACA GITAAGATGI TCCCAAAAGG ATTITTATCG TGIAAAGGAG CGIACATGAC GACCICTACC ACIGCCICCA
CTAACAAACT TICCTCTTGA GCCTCCACTG CCGCTATTTG CACTAGCCCA GGGAAGGTCC AAGICCCCCA CGACCICTAG
AAGCACGGIT CCGAGGGACT TIGGCGGTAA CC

SEO ID NO:1657: (Length of Sequence = 287 Micleotides)

GACAATNATG COGCTGCCCA CATTTTGGTC CATTCTTTT TTTATTATGC TTCTCTTNCT TGGACTGGAT AGCCAGGGAT

GTTTCANCTT CTCGCTCGTC AAGTACGTAC CCCTGACCTA CAACAAACA TACGTNTACC CCAACTGGGC CATTGGGCTG

GECTIGAGCC TEGCCCTTTN CTCCATECTC TIMENTCCCT TEGTCATCGT CATCCGGCCT CTGCCAGACT GAGGGGGCCG
TTCCTTTGTG AGAGTCAAGT ACCTGCTGAC CCCAAGGGAA CCCAACC

SEQ ID NO:1668: (Length of Sequence = 300 Nucleotides)

CCAGACAAT ACCAAGTITA TITCACAAAC ACTAGGAAGA TGGGTTGAGG GTGGAGGTGG GGGACACAGG TGCGCANTGC
ACAGAGTCAG CAGCAGCAGC CTGNTCCCCG CACTGAGGAC TCGGCCTGGA CTGCAGTGCC TCCAAATCAA CACGCAGCAA
GAGGGGAGTN CAGNGAGGGC CCTNAACACC AAGCCTCTGA AAGGCTAAGG GACACAGCTC CATCTGTCCC AGGAAAACCA
GCAATAAATA AAAGTNNGGC ACGGCCCCAC CCACACATAT CATCTAGTCA CCCATCTTCA

SEO ID NO:1669: (Length of Sequence = 334 Nucleotides)

TTITAATGAC AGATTITCCI AAAAGAAACC ACTATAACAT CIGTCCAAGI ACTCCAGAGA AAACAAAAAA TACATAAAGA TTAAAAGICT ATTACTITAA CAGCACATIG CCAAACACGG ACAACTAGGA TAAATGCCAA GAAACCITAA AAAATAACTT TAAAAAGATGC AACGITCAAG CCATTCAAAC GCGTAGGITC CACAAACAAC AGGNNAACAA GTUCAAGAGC AGTTCTACTT GTGCATGATG GTAACTCAGA CTGTACTTCA TCAAAGTTCA TTCAGGTGTT TCATAGGCGT CTGAGCAGAG TTTTGTTTTT TTCTTTCCTT GCTT

SEO ID NO:1670: (Length of Sequence = 287 Nucleotides)

GATAAAAGAG AAACAGCGAA GTTTCAAGAG AAAAACTTGA GGTCTTAATA ATTNITGGGC AACTTGACAG CAGAACAGGG
TAAAANTGAG TTAGCTACAA AGGCTCATCA GAAAATGGCA ATAGATTCCA GAGAGATTTA ATAACTACTT ACAAACTCTG
CTATAGGTGA CAAATCTGAC CATGATAAAA GCACCGTAAA TGATATAGGT AACACTGNGC ATATGAAAAC TCAGACTGTG
CACTAGATAA AAAGGAANCC CAGCATACAG TGTTACCACA TGTAAAT

SEO ID NO:1671: (Length of Sequence = 187 Nucleotides)

GATAAAAGAG AAACAGCGAA GITTCAAGAG AAAAACITGA GGTCITAATA ATTITKGGGC AACITGACAG CAGAACAGGG TAAAAWIRAG TTAGCTACAA AGGCTCATCA GAAAATSGCA ATAGATTCCA GAGAGATTTA ATAACTACIT ACAAACTCTG CTATAGGGTG GACAAATCTG GCCCATG

SEO ID NO:1672: (Length of Sequence = 329 Nucleotides)

ACATCACAAC ATCGITTATT ATGTGAATTT TTTACAATAC AAACAAAAAA TACAGAAATG CAATATATGA ATACAGCTAA
ATGCAGAATG GTGACTITTT TCTCTTCAAG AGGCCATGAT TCCCATTTCT AGTAAAATAA AGAGACTGCA TATAGGTAGA
AACAGGTTGG TCATTAGCTT CACAAATTTTG CCTAGAAATG ATCTATAAAT GCATTTCCCC CCCTGCTACT TACCCTAAAG
TGTAAAAAAGG GAGTTAAAGG AAAGTTTCCT TGTTGGTTCC TACCATATGA AAGATGCTAT ATTCTATTTT AGCAGTGCCA
ATATATGGG

SEO ID NO:1673: (Length of Sequence = 386 Nucleotides)

CTCCCTACTG TGATTCTCAT CAAGCTGGAA GCGINGTGAG AAAGCACTTC AGTTTCTTCC CTCGGATATG AACCTGAGCT
CTCTGATGAG GTGGTTTAGA AGTGGCCCTG GGAGAAGCCC ACTTCTTGGT CACAAGATAC TGCATTCTCC TGGCAGATGA
ACCAGCTGCT TCCAGCATCC TCTGTGTGGG TCCTCACGCC TAGCTGCTCT ACGTGCTGGC TGCACAGTGG CATCACATGG
GGAAGTAGAA AAACCTCTGA TGCCTGTCCC CACCCGGCTT AATCACAGTG AGTTCTTAGC AATTTTT
TTTAAAGAAT TGCAGGGGCC AGGGCGTGGC GGGCTTCAGA GCTTCTTAGC AATTTTT

SEO ID NO:1674: (Length of Sequence = 377 Nucleotides)

CTGAAATTIG GCAAGAAGGG GCAAAAACGT GACTATTAAT GATTGATAAG CACCAGTGAA GAAGTICIAA CITTTAGCAT
GCTGCACAGA AACTGGTATA ACATGCCTTC AGTATACTAA CACTCATATG CTCAGTTTTG TITTGTTTTG GCAGTTGACA
AGAAGTTAAT TIGCTTTAGT AAAAATCCCT CATTCCAGCC TITCTATATA AATAGCTCTT TCTTGCTGTT TTAATGTGGT
GCACACTATA GCCTCACAAA CCTGTTATTC CAGTGTAATC TGCAGTGTCG TAACTAAAGT TACTGGCTTG GGTCTTATTT
GCCACAGTTTT TGCGNCTTGT TTGCTTCTTG CATCTGGATT AACTAGGAAT ATTTCTC

SEO ID NO:1675: (Length of Sequence = 381 Nucleotides)

CAGAAGTCAA TCAGCTACGC ACCCAGTTCT CAAAGACCTC ACATGCTAGG GAAGGTGCGG AGGCAGAGTT GTGGTTCAGA
AGCAGTTACA GGTCTCAAAG CAAGAACAGC AGCCAAAGCT TCCACGCCCT GACGCTGCCT CTGAATGGTA AACCAATGGC
ATATGGTATC CACAGCTAGG CTTTGCTTTT TTCTGAGTGA AGGTAAAAGG CATTTGAAAA TAAACCAAAG TTTCACAGAC
TATGTTTATG GAACAAACAT GGGCCATTTT CAGGGATATA AAAGTCGATG TTCTATGTAG GCCCCCATAT GAGTATTTAT
CTACTTTTTA TTTACTTTAT TTTATGGAAT TTATTTGNCA AGGGGCTTCA CTCTGTTCGG A

SEO ID NO:1675: (Length of Sequence = 404 Nucleotides)

CIGIGITGAT TGCTTGAGCC CATCACAGIT TAGCTCTCAC AGCTTTAATT TACTAGCCCA TGAGAAGTCA GCTTCAAAGA
ACACCATTTC GACTCTCAAA GAACATTATC AATGTACATG GATAGCTTCC AACTTCATAA GGIGITTCTC TCTACCTAGA
GCAATTAACA TTAATTTGCA GAATAGTGT TATTGAAAAC CTTTGTGTAT CTCCAACAAA GTAATAGTGT ATTGATTTCA
TTCCTACTAT CTTCAACTGT ATCATTAAGA GGAATTTCTT AGGNAAGTCT ATATGCAGTA AGCAAGTAAG ATCGCAGAAC
ATCAAAGGGN GGAAGTAAAT CCCAAAACTG GNTTTTACCT TCCTTTCCCT TAGGTGAGGG AAAGGAATTT ATGGTTTTAA
AGCT

SEO ID NO:1677: (Length of Sequence = 388 Nucleotides)

ATGGACAACT ATGAGCCAGG AGTCTACACA GAGAAGGTTC TGGAAGCCAC TAAGCTGCTC TCCAACACAG TCATGCCACG
TTTTACTGAG CAAGTAGAAG CAGCCGTGGA AGCCCTCAGC TCGGACCCTG CCCAGCCCAT GGATGAGAAT GAGTTTATCG
ATGCTTCCCG CCTGGTATAT GATGGCATCC GGGACATCAG GAAAGCAGTG CTGATGATAA GGACCCCTGA GGAGTTNGAT
GACTCTGACT TTGAGACAGA AGATTTTGAT GTCAGAAGCA GGACGACGAC GCAGACAGAA GACGATCAAC TGATAGCTGG
CCCAGAGTTG CCCCGGGCGA TCATGGCTCA AGCTTCCCCA GGGAGCAAAA AAGCCGGAAG ATTTTCGG

SEO ID NO:1678: (Length of Sequence = 428 Nucleotides)

TAACIGIGCA AATAATCCAT GAATATTIG TITITATACA GCATTACAGA TAAGGCITGC AGCICIATAG ATCACCCICA TCCACTCCIT CACTCCATIG CTACACTTAA AAGCCICACA TGCTCTCCTG TCCTCTCCAA AGGCAGCTGC TAGCATCAGC GCCCACAGIA GCCTTCTTTT GITTCCTGTT TATAAACCAT ACATTTTCTA TGGCTACACA TACGTGTATT GTTTGATGCT TTCTAATAAA ATTGTATCAT AGTGGTACAC ATCTTCACA CTTTCCTNAT TACAGTCAAC ATTTGGNGGA ATACAGAATG CAGCAGATCA AGGANCTTTT CTCAGTCTTT TCTAACATGN CCCCAAATAC AGCCTCACTA TGGGGTCCAT TTAGGNGGCT CATTGGTTTT CACTCTCACA ACGGTGGC

SEO ID NO:1679: (Length of Sequence = 256 Nucleotides)

GGTGTCCACA GCCTGCTGCC TGGCCTGGAG CAAATACCTT TGTTAAGTGC TCAGAGGGTA TGGCCCCTCA AATCCACCCT
GCAGCTCCCT GGCTGCAAAT ACACTCACTC CATCTTTTCA ACTCGCTCCC TGGACCCCTG GTTAACAGTC CATCTTTTCA ACTCGCTCCC TGGACCCCTG GTTAACAGTC CATCTTTTCA TACAAAAGGC AACTIVENCAC CANATGGGCA TCCTTGAGCC ATGGTAAACA
CTGAATTINA GGCTCA

SEO ID NO:1680: (Length of Sequence = 438 Nucleotides)

TACCAGTAGT TCCTTTCCCG CTTTATTTT TAGCTGCTT TTGGGTTTTA TACAATGAAC ATGTATTAAT TGTAGAAGAA
AACGATGTCA TCCTTTATGA TAAAATCCAT TTCCATTTTA GCTTTTTTAA AAAAACAAAA AGCTGTTGTG GACAGATGAA
CATCCAAGTA CTGGGCACAC CTCCAGCCCT CCCTCTTCCA CTGAAGGCCA TTGCCTATTC CTAGAAAGTT CTTTCCCAGG
TATGCAGCTT TCAGTTTCCA CTTCAGAGGC CACAGTGTCT GGGGGAACGG ACTGCCCCCA ATACTAAAGG GAGTCAAAAT
CTCTTTAATT NCCGCACTTC CTCAGTACCA ACAAGGAAGT CCCTTCTTTA GGGCCACTGG ATGGGAACCT NGGGACCCCC
CTTTTTTGAT TGGCAAGCAT TGGGCATCCT AGGGCCTT

SEO ID NO:1681: (Length of Sequence = 370 Nucleotides)

SEO ID NO:1682: (Length of Sequence = 397 Nucleotides)

ATGIAATCCG CTGCACCAAA CACACCTTCA CCAACCACAT GGTTTTTAAG TTTGACTGCA CAAACACACT CAATGACCAG
ACCTTGGAGA ATGINACAGI GCAGATGGAG CCCACTGAGG CCTATNAGGT GCTCTGTTAC GTGCCTGCCC GGAGCCTGCC
CTACAACCAG CCCGGGACCT GCTACACACT GGTGGCACTG CCCAAAGAAG ACCCCACAGC TGTGGCCTGC ACATTCAGCT
GCATGATGAA GTTCACTGTC AAGGACTGTG ATCCCACCAC TGGGGAGACT GATGACGAG GCTATGAGGA TGAGTATGIN
CTGGGAAGAT CTTGGAAGTT TACTTGTAGC TTGTTCACAT TCCAAAAGGT TCATGGAAAC TGAACTTCGA GCAGCCT

SEO ID NO:1683: (Length of Sequence = 396 Nucleotides)

GGCTGCGCAG AGGAGCCGCT CTCGCCGCCG CCACCTCGGC TGGGAGCCCA CGAGGCTGCC GCATCCTGCC CTCGGAACAA
TGGGACTCGG CGCGCGAGGT GCTTGGGCCG CGCTGCTCCT GGGGACGCTG CAGGTGCTAG CGCTGCTGGG GGCCGCCCAT
GAAAGCGCAN CATGGCGGCA TCTGCAAACA TAGAGAATTC TGGGCTTCCA CACAACTCCA GTGCTAACTC AACAGAGACT
CTCCAACATG TGCCTTCTGA CCATACAAAT GAAACTTCCA ACAGTACTNI NAAACCACCA ACTTCANGTT GCCTCAGACT
CCAAGTNATA CAAACGGTCA CCACCATGGN AAACCTTACA AGCGGGCATT TTAATTNCAA ACANCAACCA GGGGAT

SEQ ID NO:1684: (Length of Sequence = 417 Nucleotides)

ATCCAGGGA GATGCATGTG GAAATGTGGT CCTCTGGGGT CAGACCCCTG CACGGGACAT CTTGCCTTIN AGTGTGCAGA
GTACATGGGG AAGGGGCTGG GGGCACCACT GTGTACCTGG GCCCAGTAAG GCATTTGCCG TGATTCCCAC AACGGGTCA
AAAGCTGGCC TTCAGGGTGA CCTAACACCA CCTCATGCCC TGCTATAGAC CTTCACAAAC GACTTCCACT GCTGAAGCCT
GTAGGCTCTG TTTAGAGACA AGAAGATGGC TGGTAATTTA AGCACCGATT TCCCAAGTGC CCACTCTCCT TTGTGCTCTG
TTGGCTTTTG GCCTAAAGCT TNNCCCAGAG TTAGGGTGTA GGATGTCTGT GGTCTGTGAG ATGCCTTTCC CTTCCCCCCT
CTGCTTCAAC CGTGGTT

SEO ID NO:1685: (Length of Sequence = 429 Nucleotides)

TGAGAGAATA AATGGGTAAT GGGAGGAGAA CTATTTTAAC AAGGGTCCTG GGTTTCTCTT TGCAAACACA GTAGGCTTAA ACTTTGCCTG CTTTTTAAAA TGGCATTTT

SEO ID NO:1686: (Length of Sequence = 445 Nucleotides)

TGTCTTCATA ATATAACAAC ACTAATACAC TAATAGTAAG ATTAAGTTAG GCAGTCTTCT ACCAAATGTG TAATGGAGAT
TGCCTCAAAA TTGTGTCCAC ATAATCCACG CTCATCTTGC AAAGCGCTAT TTCAGGCACT TTTTTTTGAG AAAGAGTCTC
ATTCTGTCGC CCAGGCTGGA GTGCAGTGGC GCAATCTTGG CTCACAGTAA CCTCTGCCTC CCGGGTTCAA GCGATTCCCC
CGCCTCAGCC TCCCGACTAG CTGGGACCAC AGGCACGNAC CACCACGNCC GGCTCACCTT TGTATTTTTA AGTAGAGATG
GGGGCCTCAC CATATTGGGT CAGGCTGGGT CTTCAATCIN CCTGGACCTC ATGNTCCACC CGCCTTGGGC CTNCCAAAAG
TGCTTGGGGA TTANAGGGAA TNGGGCCACC GGGCTTGGG CCAAT

SEO ID NO:1687: (Length of Sequence = 170 Nucleotides)

AAAAACCAAA TAAAGCAATA ACTITAAAGA CCTCAGACAC ACACAGTATA AACACCIGGG TAAGGITTIN TCCGIGICCA TGTIGACACC GGAACTACCG TTAAAGIGCA AGITTIGITT TGTGTTCCTT TGTGCAGTIT CACTCACATG TAAACAAGTC ACTIGGCTAT

SEO ID NO:1688: (Length of Sequence = 386 Nucleotides)

AATGTGATTT GATGTTAACA CTAGAGAATG ATGACTGTAG AACATTTGAG CAAGTAAAAT AGTAAAGCAC ATAGTGAGTG
TATGTCCATC TAACTGGTAC ATTGATAATT TAGTTTGGGC ACATAAAAGG AATATTTATA TGGCTTCCCA AATGCAGAGT
TACATCTTAT TCGTGTATTT CTCTGAGTAT TTATATCCCG TCTCCTTTTT TCATTCTTAA AAATAAATGA ATTTTCACTG
TTGGCACATA TGAGGCTTAA ATATAAGGAG CATAACACTT GCATTCTAAT TTTTGCATAT ATTGTAAATG TGTCTGGTAT
TTACAGCAAA ATACTGTGTA TCCTTTATGG GTAAACAAAG TGACATTGCA TGCATGTAAT GTGATG

SEQ ID NO:1689: (Length of Sequence = 400 Nucleotides)

CTTCTGTCGG ATCAGCGTAT TCCTAGATTA GGAATTCAAA TTAATGAAAA TTCACATATG AAAGGAAAAT CCATTGCTAT
TTCTGGAGAG GACCTCAGTC CTGGGCTTT CCCTGGCATT GCTACCTGGG TGGGTGCTCA CCACTCAGGT GCTGGTGTTG
GAAGGCAGGA GGAGGAACTT GAAATCCTGC CGATTAAGGC TAATTAACAG GGTTTAGGTG CCTAATTATC ATGACTCAGC
CCGGGACTTA TGGTTAGCCG TGCAGGCCAG GTGAGTCTCT TATGGACTTC CTCTCAGACT GCTCTTTCTC ATTTTGTCCT
GATGAGATAT TGACAGTCAT GTCCACCCGC TTCCTCATCC ATTTCCCGTC TTTGGGCCCT GGGAAGTACG GGGCCCTCTG

SEO ID NO:1690: (Length of Sequence = 337 Nucleotides)

AGINATATAC CITTAAAAGT AACTAATGCA ACTGCCAAAN AGGGACAGTG TCAATATCAT TGINITCATT AGAAGGACGG
CTGCCCCACA CTGINAGAAC ACTGCTGTTC CTAACAGTAG TTTACTTINA GAGGGATGIN AGAATTAGTT TNACCTTAAT
TCCAGATGTG CATGCCTCAA AAGAAAAATC CCATTCTCCT TCCTTTTGGG GAGCACTTTT GGTGGCACCA AGGCTGGTGT
GGGGTAGTGG AGAGAGCACT GAGCTTAGAG TCACAACCAG ATGAAACTGC TCTGGTCTTC ACTAGCTGTG TGACTTGGGC
AAGCAGCTTG CAGTCTC

SEO ID NO:1691: (Length of Sequence = 372 Nucleotides)

TCATTCTCCC AAAGIGCTGG GATTATAGGC GIGAGCACGI GCGCCCAGCC TTACTTATTT TTAAATCAGA TTTTTTAATC AACTAAAACA GCTATGAGTT AAGIACCTGC CCTGCAAAAA TTTTTTAGAAA AAGITTTTAGG ATTAGGAACAGIT CTAAAAATTTA TCTGATACTT CTCTAACAAG TGAGTGATCT CATGTAACCC CAGITTGTAT

CTTAAAGGCT GCAGCATAGA ATTGAGCTGT ATAACAGTGT TAGAACTGTC AAGTGATAAT CACAGAACAG TTTGTATCGG TTTTATAATT CTCATGTCTT GATCAGATCT GAAGGGAATA GGCATACCCT CC

SEO ID NO:1692: (Length of Sequence = 360 Nucleotides)

TITITITIGC AAAAATAGIA TATATTATT AIGIACAACA IGIATTIGA GATATGIATA CATIGIGGAA IGICIAAATT GAGCIAACAA AIACATTATC TCACAATACCA IGITITITIG IGGIGACAAC AITCAACAAT AIAGACCAIT ICACAAATTT GCAIGITATC TITIGIGCAGG GGCIATGCCA AICTICICIG TATITITINCA AICTIGGIGI AIGIGCIGCI GAAGCACACA CCCIAATTCC TITICATITAA GCAICTAGIT AACCITICIC TITAAGIATAA CCAIGIATTI IGITAAGCAA TATCITITITA TITACAAAAAAT GCCAITTITIT ICTIGGNIAGG AAAATIGATT

SEO ID NO:1693: (Length of Sequence = 378 Nucleotides)

GACAAAAAGA GGGGTCTGGC TGCCGATGTG GAAATTTGTT TTGTGGACTT CACCGTTACT CTGACAAGCA CAACTGTCCG
TATGATTACA AAGCAGAAGC TGCAGCAAAA ATCAGAAAAAG AGAATCCAGT TGTTGTGGCT GAAAAAAATTC AGAGAATATA
AATTACTTCT TGTGAAGAGA CTGAAACTTT GTTTTATTT TAATATATCG TAGGAAAACA TTAAAGAGCA GATGCATGGC
CATTTTNCTT TGATGTTCTC CAGAGTTTTA CATTACACTT GTCTGTCTTA TAATTGATAT TTTAGGGATG TTTGGGTGTT
TGTTACAGGC AGAATTGGAT AGATACAGCC CTACAAATGT ATATGCCCTC CCCTGAAA

SEQ ID NO:1694: (Length of Sequence = 362 Nucleotides)

AATGCACTIT ATTGCTCCC AGGGAGTGGG ATGCAGGATC AGAGTGGACA CGCGCAGGGG GCTGGTGTGG GGAGCAAAGC NCCGGGGCTG CCCCGGACCC TGGTTTCCCT GAGGACCAAC GTGAATGGGG GCCCCACTGG AAAGATGCTT GGGGCTGCAG AGGGGAGGAAACCAA ATGCAGGCCC AGGTTGCTGG GTGGTGCCCT CAGCTCCTGG CAGGGTTGAC GGTGGTGGC CGCTGGGCTC TGCCAGCCGA TGGTCCNCTG GCACCTGATC CTGTCTTCCA GCTTCACTTC CGGGCCTGCT CGTAGTTGTC AGTGAACCAA GCACAGGTCT CCTTGACCGA CTGCTTTNAA GGGTGTGAAN CG

SEO ID NO:1695: (Length of Sequence = 411 Nucleotides)

TTAATACAAG GEGITIGAAC TGGACATCCT AATGATGCAA TTACGTCATC ACCCAGCTGA TTCCGGGTGG TTGGCAAACT CATCGTGTCT GTCCTGAGAG GCTCCACAAT GCCCACCCGC ATCGCCATTC TGTAGTCTTC AGGGTCAGCT GTTGATAAAG GGGCAGGCTT GCGTTATTGG CCTAGATTTT GCTGCAGATT AAATCCTTTG AGGATTCTCT TCTCTTTTAC CATTTTNCTG CGTGCTCTCA CTCTCTCTTT CTCTCTCTAG CTTTTTAATT CATGAATATT TTCGTGTCTG TCTCTCTCTC TCTCTGTGTT TCCTCCAGCC CTTGTCTCGG AGACGGTGTT TTCCTCCCTT GCCCATTATC TTTTCAACTC CCAGGGCTAC CCATTTCAAT GGTGGGTCGT T

SEO ID NO:1696: (Length of Sequence = 280 Nucleotides)

CTTTGTGATG TTTTTACGCT TTACAAAAG CAGATTTGGT ATTCAGAAAA GCCTGCAAAT ACAACATTGC TTAAGAGAAC CTGTAAACAC GTTTGGAATA CAATGCAACA CAAGTCAGCA AGGACAGGGG TAGGTCCAAA GGAGCCAGCT AGGGGGAAAG GTGACAGAAA AGGAGAGGGA AGGATGGNGA CAGACATCAC CTGTGGTCTC TAAGGGGGCC NTGTGTTTAA TTTATAAGGT TINCINCCCA CAGGAGTTCT NNIGTGATCT ATCCGTTCAT

SEO ID NO:1697: (Length of Sequence = 418 Nucleotides)

ATTICITCAT TIACAAGAGG AATATATITG GCTTCTCT TAAGACTCTE AGATTCACAA TCAGCAGCTC TAAAAAATAA AGGAGCAGIT TGGCTTCCGG AAGGAAGAGA AGGCAACACT CGGACCTGGT TCTTGTACAA CAAGAAAACA TGGCTGGGGC CCCGCTGAGG CTGGAGTGGG GGTGGAGGCT GGTCTTTGGA GGCCCTCGGG

GIACCCCAGA GCITNGIGGG TGAGIATICC ACCIGCITAC ACACCACTGA AGCCACAGCC AGCCAGIAAC TAAGGGGCAA
GAAAGAGCAT TGICCAAGCT GGCICITING GGGGGICCCC CATINGGCCA CAAAGGCCTC ACCCCCACC CCATCCCCGT
AACCAGAAAC CACCITGA

SEO ID NO:1698: (Length of Sequence = 376 Nucleotides)

ATTITIATIG TITATITACT TATTITITAC CCTTTITICA AGAGATGGGG TCTCACAGIG TTGCCCAGGC TGGACTTGAA
CTCCCACTCC TGGGCTCCAG CAGTCCTCCT GCCTCACCTT TCCAAGTAGC TGGGGCTATA AGTACACACC ACCATGCCCA
GCAATATITT AATTICTGTA ATGIGTCATT TAGCCAGTGA TTGTTGTATT ATAATAGAAT CACAGAAATG GAGGGACTCC
TAGAGGTAAT CAAATCTGGT GGTTTTTAAG CCTTTTATTC CCTCTAAAGG GATAGTAAAA CCATTAAAAA TATAATTTTT
CCCAATTATG TAAGCCAGGG AAAGCTGACC TYCTGGTTTA GAGAGGAACA CAGATG

SEO ID NO:1699: (Length of Sequence = 365 Nucleotides)

GGTACATGTG CACAACGING GNGITTGITA CATATGTATA CATATGCCAT GITAGTGTGC TGCACCCATT AACTCGTCAT
TTAGCATTAG GIATATCTCC TAATGCTATC CCTCCTCCCT CCCCCTACGC CACAACAGTC CCTGGGTGT GATGITCCCC
TTCCTGTGTC CATGGTTCT CATTATTCAA TTCCCACCTA CGAGTGAGAA CATGCTGTGT TTGGTTTTTT GTCCTTGCGA
TAGCCAGATG CAGCTACTCT TAATGTGCAT ATTTTCATCC TAGAACATTG GAGAGTTCCT GTAAAAGCCT TGTGTTCCAG
GAGGAAGGAG ATCCTGACCC TTCTGCTGAT GGCAGCAGTC AGGGG

SEO ID NO:1700: (Length of Sequence = 397 Nucleotides)

AAAGGCAGTC AAGCAGGAGT TAAACAATAT GGACCTAACT CTCCTTATAT GAGAACATTA TTAAATTCCA TTGCTCATGG
AAATAGACTT ATTTCTTATG ATTGGGAAAT TCTGGCTAAA TCTTCCCTTT CACCCTCTCA GTATCTCCAG TTTAAAACCT
GGTGGATTGA TGGGGTACAA GAACAGGTAC GAAAAAAATCA GGCTACTAAT CCTGTTGCTT ATATAGATGA AGACCAATTG
CTAGGAAGAG GTCCAAACTG GGACACTATT AACCAACAAT CAGTAATGAA AATGAGGCTA TTGAACAACT ATAAG XCTTA
TTTGCCTCAG GGGCCTGGGA AAACATTCAG GACCCAGGGA ACCTCATGCC CTTCTTTTAG GTTCAATCAG ACAACGT

SEO ID NO:1701: (Length of Sequence = 245 Mucleotides)

GICTAGGAGG AGGCCTTCTG CACAGAGCCC CTGAAGAACA CAGGCAGAGG CCCCCCACTT GGCTTCTACC ACGTCCAGAA CATCGCAGTG GAGGTGACCA AGTCCTTCAT TGAGTACATC AAGAGCCAGC CCATTGTTTT CNAGGTCTTT GGCCACTACC AGCAGCACCC GTTCCCGNCC CTCTGCAAGG ACGTGCTCAG CCCCCTNAGG CCCTCGCGCC GTCACTTCCC TCGGGTCATG CCACT

SEO ID NO:1702: (Length of Sequence = 349 Nucleotides)

ATCIGITGIC AGCACAGITI TATTIGCIGI GGAATCCATG AGAGCCGGAA GCATCGITGG GGCCGIGGCI AGCAGAGCIC
ATGGIGACCA GICCIGGGCC TGACCAATGG GIGATTACAT TIAAAAACCA AAACAAAACA AAACAAAATA CCAAGAACAG
ATCACTIGCC AIGGACATCA GIAATCIAIT GGIAATGGIG AAAATTITCAT GAAAATTITCC CCIAAACCAT AACAAAAACT
GICCICCITA CCCCAAAAGI GCIGGAGGGA AAGATGGIIG CAIGGCITTG ACCICTCITT GAACITGAAA TGCIACCITC
CTACCCGGAA AAIGCGGCAC ACTATACTT

SEO ID NO:1703: (Length of Sequence = 419 Mucleotides)

GACCCCTCC CCTCCAGAAG CTCACATCCT CCTACTCATG GCAGACAAAT PARCGUMAT TACACTCAGG CAACGTAATT
GTGCCAGCAG ATGTAGTATG CAGTGCAGAG GTGGCCATGG TTGCNAGGGC AAGGAGGGCT TCCTAGCATG GGCGTTATTT
GACCAGAGGC TGGCGGTGGC TTTTGCTAGC AGTGTGATTG TNATCTGAGC CAGGGACAGA TACCTCTNTG AGCCTTGGTT

TCCTCATCIG TAAAGTGGIT AAAGACIGAN TAAAGCAAAA TATGIGCAAA CAGICIGIGA ATGGGGAAGI AACAGATGII GCTITCIATI ATGITCICIC CTAGCCATGA ATATCAATTA TITCAGAAAT GAAAAGGGAT CCTGCACCCA ATTICAAATC AAGCAAGIIC ACCTAGAGG

SEO ID NO:1704: (Length of Sequence = 372 Nucleotides)

GCTTCCCGAA GGTCTTGGAC GAGCGCTCTA GCTCTGGGG AAGGTTTTGG GCTCTCTGGC TCGGATTTTG CAATTTCTCC
CTGGGGACTG CCGTGGAGCC GCATCCACTG TGGATTATAA TTGCAACATG ACGCTGGAAG AGCTCGTGGC GTGCGACAAC
GCGGCGCAGA AGATGCAGAC GGTGACCGCC GCGGTGGAGG AGCTTTTGGT GGCCGCTCAG CGCCAGGNTC GCCTCACAGT
GGGGGTGTAC GAGTCGGCCA AGTTGATGAA TGTGGACCCA GACAGGTGG TCCTCTGCCT CTTGGCCATT AACGAGGAGG
AGGAGGATGA CATCGCCCTG CAAATCCACT TCAACGTTCA TCCCAGTCCT TC

SEO ID NO:1705: (Length of Sequence = 426 Nucleotides)

GATGCCTTAT TTAGICCATT TGGTGAGGTA ATGITTTCTT GGATGTCCTT GATGCTTGTA GACATTTGTT GATACCTGGG
CATTAAAGNG TTAGGTATTT ATTCCAGTCT TCACAGTATA GGCTTGTTT TAGCCATCCT TTTTGAGAGG ACTTTCCAAG
AATTCAAAAG GGATTGAGTG TTGTGACCTA AGCCTATGGT CACTGCAGCC ATTTCAGCAC TAGAGAGTGC CCTAAGCCCC
GGAATGCTGC AACTCTTACA GACTCCTTGA TACACAGCTT TGGTAGATTT TGGGAAAATA AGGGAGAATT CCCTGGGGTT
ACCAGGTAAA AAGTCTCTCC CACTTCCCTC TCTTTCTGGC AAAGGAAGTC AGTCTCTGCA CCAGGCTGCC TGGAGTTTGG
GGGAGGGATA AGGCGGTCAC TCTAAT

SEO ID NO:1706: (Length of Sequence = 412 Nucleotides)

ATTITATITC CITACATOGA AGAAAATGIT AAAGAGIATC INCAGACACA ITGGGAAGAA GAGGAGIGCC AGCAGGATGI CAGICTITIG AGGAACAGG CIGAAGAGGA CGCCCACCIG GATGGGGCIG TICCIATCCC IGCAGCATCI GGGAATGGAG CIGAAGAGAG ATCCAGGCCG IGGTAGATAA IGIGIGCIGG CAGATGICCC IGCANCGAAA GACCACIGCA CICAAACAGC IGCAGGGCCA CATGIGGAGG GCGCCATICA CAGCIGGGCG CATGAAAGCA GAGITCITIG CAGATGIAGI TCCAGGCAGIC AGGAAGIGGA GAGAGCCCG AAINAAGGIG TACATCIATI CCTCAGGGAG IGITGAGGCA CAGAAACIGI TATTICGGGCA IT

SEO ID NO:1707: (Length of Sequence = 434 Nucleotides)

GIGIGICIGE AAAAAAAAA AAGATTCIAG GCATGGIGGI GIGITGACIG TAGTICCAGC TACTCCAGAG GCIGAGGIGG
GAGGATIGGI TGAGCCIGGG TGGATGAGGC TGCAGTGACC CATGATCATG CATGGGAGAC AGAGCAAGAC CITGICICAA
GAAAGGAAAG AAATCACIGG CICTICTGIA AAAAATGATC TGITAAGAGI AATTGAAAAA ATAAATACAA GIAATAAAAT
AATCTITCAT TTAAGAAATA CTACCAAAAT TAACATGGAG ATCTAGCAAA AAGTCAAAAG CAGCINGGCG TGGTGGCTCA
CACCIGTAAT CCCTACACCT TGGGGAGGCT GAGGCGGGAG GNTCGCCTGA GGTCAGGAGT TCGAGACCAG CCTGGCCAAC
AGAGCCAAGT CTCTACTTAA ATACAGATTA GCTT

SEO ID NO:1708: (Length of Sequence = 440 Nucleotides)

GEACCAGGAC TCCAGCACCT TCCCTGGCTG CATCAACAAT GCCACACTCT TTCAAGATGA GATAAACTGG CGCCTCAAGG
AGGGACTGGT GGAAGGCCGA GATTATGTGC TGCTCCCAGC AGGTGCTTGG CATTACCTGG TCAGCTGGTA TGGTCTAGAG
CATGGCCAGC CACCCATTGA ACGCAAGGTC ATAGAGCTGC CCAACATCAA GAAGGTCGAA GTGTACCCAG TAGAACTGCT
GCTTGTCCGG CACAATGATT TGGGCAAATC TCACACTGTT CAGTTCAGCC ATACCGATTC TATTAGGCTA GTTAGAGCCC
CAGCTCGGGA GCGGTTTCTG GTGGAGCCCC AGGANGACAC TCGGCTTTGG GCCAAGAACT CAGAAGGCTC TTTGGATAGG
TTCGTATGAC ACACACATCA CGGTTCTCGA TGCGGCCCTT

SEO ID NO:1709: (Length of Sequence = 404 Nucleotides)

TITGICITAT GIAGAATICC CIATAGIAAG AAAACCCAGI AGAGAAAGIG GIITINAGAC CATICGGCAG CIGCITIGGA
CACCIGGAGC CATITCITIT ACAGATGAAG ATGCATIGIG TCATIGICIC AGGATCCICG TCCTGITGCT TCTCIGGCCA
CAAATIGITC TITACCAAAG ATGATITIAT TICACIGICT TIGAAAATCA TICITIATAG GIAGAATATG AAGATTCTCT
GAAATGATIC CAAAATGCCA AACTCAAACA CIATIGICCG ATTTCTTTAC TIGCAACAAG AGAGTAGAAG GGACAGIATT
TGTTTIGIGA TGTTGGGGCG TICATCAGGG AGAGAATTIG AGATAAGIAG GAATAGCCAAA TAGGAATAGI GAAATAACCT
AGAT

SEO ID NO:1710: (Length of Sequence = 187 Nucleotides)

GGTGATCTGC CGACCAGAGG CCTTAAACTC TGGTGTTGAG TACTACTGGG ACCAGCTGAA CGAGACGGTC TTCACTGTCC ATTCCAACAG CAGGAGCAGC GAGCGSCTGG ACCAGGCAGA GCACATGGAG GACAGCAGAG ACATGGGCTG ATGAATGCAT TGGGCTTCAG CCGACCTGCA CTCAGTG

SEO ID NO:1711: (Length of Sequence = 313 Nucleotides)

AGGGGCATGI NATCATTINA ATGATGINAT CITIGGIGIT TCCCTCATTA GCTGTAGACT ATCCCCTCTC CTCCCACCAC
AATGITTCTA TGATGAGITA CAAACAGAAA GGAAATCACA TITTCATACT AAAAACAAAA TGATCAGAGC CTTGATTTCT
CCACTAGAAA CTACACGTAC AGTTAAGAGT CCACATGCAA CACCTTAAAT CACAGACTGA GGACCTCACA TTCTGACCTG
GGAGTCTCCT CCCCTTCCCC AGCCTTGGGC TAGCTTTGGC CTAGGCTCAG GTAATACTGA CACCCACAGG CGT

SEO ID NO:1712: (Length of Sequence = 202 Nucleotides)

TITIGGIGGI TICCICITIA TIGIGIGCCI CCIACCITCC CCCACAATII CAGICCCITC CAACACCCCA AAAAGAAGGA
GTGAAAGGAA GGGATTGCTG GGGTTCTGAG CCCTTGGCAG TCAGAAGGAC AGAACCAAAC ATCACTGGAT GTGACACAGC
TGCATCAAGA AGTCTACAGC AGTATGGGAA GCGGCAGAGA AG

SEQ ID NO:1713: (Length of Sequence = 253 Nucleotides)

TGALTICANTG GGTCTGGGAT AGAGTCTGGT ATTCTGCATT TCTGACTAGC CTCCAGGTGA TACTGATTCT CCTCATCTAG
GGACCTCGCT TTGAGTAGCA AGTGTTTAGG CCACTTACTA GCAGGAACTA AGCACAGTAT CCTACAACAG CAAATGTCTT
TCCAACAAGA AAGACGAGAG CAAATNCTGA TGCCACATCT GCACTGCCTC AGAAAATAAA GAAGGGATGA GGAGCCCCCC
AGTGGCACTC TGT

SEO ID NO:1714: (Length of Sequence = 299 Nucleotides)

GGTGCAGCTG CTTTGAAAAA TGACTTGGCA GCACCTCAAA ATGTTAAACA GAGTTACCAC ATGACCCAGT AATTTCACAC
TTAAGGATAT ACTCAAGAGA AATGAAAACT AAAAACATAC GGCTACCCAA AAACTTACAT AAGANTGTTC ACAGCAACAT
TATTCATAAT AACCAAAAATA TGGNAACAAC CACAATGTCC ATCAATTGAT AAMTGGGTAA AGTCTGGCAA ACTCACAGRA
TGGRATATTA TTTGGTGGTA AAAAGGAGTA AAGAACTSNT ATGTACTACA ACATGGGTG

SEO ID NO:1715: (Length of Sequence = 371 Nucleotides)

TTTTTTTTAC COGGGGGTTC CTGAGTTTAT TTGGGGCACA CCCGGACGAG GGCCCTGCAC CTAGAAGAAG GTGTTGGGCC
LCTTGGTGGT GAACCGTGGC TTGTGCTGAC GCCCAGGAC CCGGTGGGC ALGCGGAACT TAGATGTGAC GTCGGGCGCG
TGCTTGACAG CCGGCCGGCG GCACTTGCTG GCCGCGATCT CCTCCACCTT CATGATCTGA ATGGAGTGGG CTCGGGCGCG

GIGCCGGGCA CCCATGICTC GGTAGCACTG GGTGACAGCG CCTGCGGTGG TCAAGTCCCG GTATTCCCGG TACATGITGT
GGGTGCCGCT CCGGGAGTCA TAGCGCAGCA AGATCCCGAA GTTCTTCAAC C

SEQ ID NO:1716: (Length of Sequence = 265 Nucleotides)

GTGCAGAATC TGCTCCTGGA CACCCACAGG GGGCTGCTGT ATGCGGCCTC ANANTCGGGC GTAGTCCAGG NGCCCATGGC CAACTGCAGC CTGTACAGGA GCTGTGGGGA CTGCCTCCTC GCCCGGAACC CCTACTGTGC TTKGAGCGGC TCCAGCTGCA AGCACGTCAG CCTCAGCTTG CCACCAGGGC GTGGATCCAG GACATTGAGG GAGCCAGCGN CAAGGACCTT TNCAGCGCGT CTTCGGTTGT TTCCC

SEO ID NO:1717: (Length of Sequence = 350 Nucleotides)

CAGCCCCGC AGCCTCTGG CCCCCTCCAT CTCTTGTCCG TTCCCACCCA CCCCCCTCCT CGGCCCGAGC CTTTTCCCGG
TGGGTGTCAG GNTCACTCCC ACTAGGGACT CTGCGCTAAT TACCTGAGCG ACCAGGACTA CATTTCCCAA GAGGCTCTGC
TCCCAGGAGTC CAGGAAAGAC GAGGCCACCTT GGCCGCGGGG CCTGCTGGGA CTTGTAGTTG CCTAGACAGG GCACCACCCT
GCACTTCCGG ACCCGCGCTG GAGGCGCCGT GAGGTTTGGT GTCTCGAAGC AGCAATTAAA AAGCAAGAGG ACTTCATGAC
CACCATGGAC GSCAATTAGG AGAAGATCAA

SEO ID NO:1718: (Length of Sequence = 379 Nucleotides)

GACATGGAGA CTCACATGGC TGCAGAACAC TGTCAGGTGA CCTGCAAATG TAACAAGAAG TTGGAGAAGA GGCTGTTAAA
GAAGCATGAG GAGACTGAGT GCCCTTTGCG GCTTGCTGTC TGCCAGCACT GTGATTTAGA ACTTTCCATT CTCAAACTGA
AGGAACATGA AGATTATTGT GGTGCCCGGA CGGAACTATG TGGCAACTGT GGTCGCAATG TCCTTGTGAA AGATCTGAAG
ACTCACCCTG AAGTTTGTGG GAGAGAGGGG GAGGAAAAGA GAAATGAGGT TGCCATACCT CCTAATGCAT ATGGATGAAT
CTTNGGGTCA GGATGGAATC TGGATTGCAT CCCAACTCCT CAGACAAATT GAGGGCTCT

SEO ID NO:1719: (Length of Sequence = 197 Nucleotides)

CCTATATTIG TITAATITAT TTAAGACCAC CICCTTACAA CITCCAGAGA GAAAATACAA AACAAGAAAC AGACTIGGIT TCAAATGCAT AACCAGGIGC TGGAGTTTAA AGCATTACTG ATAACATTGT TACAGAAGAA TGGCAGCTTA CTCCAGGGCA CTTCAGTATT CCTGAGGAAT AAACATGATT TCGGAAG

SEQ ID NO:1720: (Length of Sequence = 203 Nucleotides)

GAGGGGGG CAGAGGGAGC ATGACGGGGA GAGTGAGGAG GAAAGAGGAA AGGAAGCCCA GGGTGGGAGG AAGGATCANC TAAATCTGAG GGAAGAAGAA GGAAAGGAGA GGGCCTATTT CATAGCAGAT GCAAATRAAG GGNCITGGGG CTAKTCAGGA AGAAAGGGAA AGGGAAGGAA GGCAAGAGAG AGGGTGAAG GGA

SEO ID NO:1721: (Length of Sequence = 326 Mucleotides)

GGTGCAGCGA TGTTTAATGG CAATTCGTAT AAACCAAGCC CATGCACAAG TAGAAAGTGC CCGTGGAGCC GGCAGGAGGC
CCCCGCCGCG NTAGAGAACC ACAAGCCCGG CCGTGCAGCC CTCCCCGCGG CGCCTTAAAT AGATTCTTCA CTATACTCTG
TATGTTACAG TATGTACAAG ACCCCTCCCC TCGGGGGACG GGGGGACTN CGCAACGNGT TCCTATGTAC ACCACCTCCC
CTTTCCGCCCC TGAGGTCAGT GGCCAGAGTC GGGTGATGGG GTAAGANAGG GCCAGAGAGG GAGGAAACAG ACGCAAACAT
GCGGAG

SEO ID NO:1722: (Length of Sequence = 291 Nucleotides)

TGITTITAAA AATGAGAAAA TITGGAGAGA GAATACTATT ATGICAACGG TACAAGACTC TGAATCITGA AGATGTAGAT
GGATATAATA TITAGACTIT ATATACACCC ATAGATATGT ATTITATATAT GCATACGITT TGIATAAATT TACAATTGAC
TTTTTTGTATT CICITINCIG TCATTACAAG AATGAGATGG AAACCAAAAT AGITGINCCA TCCTCTTACC CAAAGAGGGA
TACTGAAAAG TCCCGTATGT GCATGCACTT GITTCTCTGG GGTCAAATCT G

SEO ID NO:1723: (Length of Sequence = 369 Nucleotides)

GATTGCCCGC TCCCTCGATT CCTTCCTGTT GTCTCCAGAA GCTGCTGTGG GCTTGCTAAA AGGGACAGCA CTTGTCCTAG
CCCGATTACC TTTGGATAAG ATTACCGAAT GTCTTAGTGA ACTATGTTCT GTTCAGGTTA TGGCATTGAA AAAGCTGTTG
TCTCAAGAGC CCAGCAATGG CATATCCTCA GATCCCACAG TGTTCTTAGA TCGCCTTGCA GTGATATTTA GGCATACCAA
TCCCATTGTG GAAAATGGAC AGACTCATCC GTGTCAGAAA GTCATACAGG AAATATNGCC AGTTTTTATC CGAGGACTCT
AAAATAAGCA CCGAGCTGNA TAATCGGATT GTAGAGCGTT GTTTGCAGG

SEO ID NO:1724: (Length of Sequence = 231 Nucleotides)

ATGIATIGIT AGITOGATIC CITCAAATIT TATACATATI TACTITCIGI TAAAGAGAAA AGGATAAAAT GGIATAAAAA AAGATAAAGC TATTAATTAA GCACGAGAGA GAAGATAAAT GGATATITTIC CCTGTGTGAG GCTAAGACAG AWGCAAATCT CGITANGAAA AATGCCACCC ACACAACAGG AANTITATCC AAAACAAAAC AAAAGCAGTT ATAGANCCCC T

SEO ID NO:1725: (Length of Sequence = 317 Nucleotides)

GTGCAGGGTA GGGTACATAT GGCTCTGTCA GAAGAATACC ATGATTTAAG GGAAGAAGT ACACAAGGTA CATGGAGGGT
ACACAGGGAA AGTACAT. A TAAACATGGA CGTGTGCAAA TAGGAAAGAC ATGATCAGC ATGCTAGACA AATTGCACAT
GCCTACCCAA ACACGCT. A GGGCAGACCC ATGACCATGA GAGGGGCACA CGTAGCTGTG AATGCAGGGC ACCCGAGAGC
ACATGTKACT KAACATGAAG AAAGCATACG GGAAAAGCGT GTKTACACAT GNGCATGTTC AGTGGGGCAC ACGCAGG

SEO ID NO:1726: (Length of Sequence = 282 Nucleotides)

CTCTTGAACC AGATGAGCAG CCACCGGAAA CAGAAGCAGA GAGAGCCGGA GTCCTGGGAA TCCAGGAAGT CGCAGAGCAG
GGGGTCCAGC ACCCTCAGGA GCAGCAGCAG TCGCCCGAKT TGCCGCTTCA TGGTCTCCTG GCTCTCTTCA AAGTTCCCTT
GCACGAGCTC CATGAAGCCA CAGAAACCACC AGAAAGCATC CACCTCGTTC TGAATGACGT AGAGGATCGG GGAGAGAAGA
TCACTCATGC CCTGGACGTA GCCGAGGTCG AAGTGATACA TT

SEO ID NO:1727: (Length of Sequence = 285 Nucleotides)

GAGTATTGAT TTCAGGCAGG ACCCAGGTCC CAAAATGITA GAAACAGITA TCCTTTTTCC CTCTGAGTTC GITATTCTCT
GGGGCCCCAG TATCCGTGGC TTAACAACCC GGCTGGATAG AAGGCACCTC TTTCCCCACG TTCCAACAAG ATCCCAGAGC
TGCTTCTCAT TGGCTCGTCC CTGAGTCAGT CACACTGGAC CGGAAGGTGA AAGGCCCTCA TTGGCCAGNC CCGAGTCATG
TGCCCACCCC TGGGGATCCA GCTGTGGGNC INCTTTAACA GCATT

SEO ID NO:1728: (Length of Sequence = 394 Nucleotides)

TITITITICAT GAGGAGATAT AGCAAAGGGT CATTIGCCCC TCCTTCAGAA AACTITICTC CAAATCTCCT TIAAACATAC
TGCCTTATCT TICCCTCCAT AACTCCACCA GICTCTCCAC ATCCCCCTCC AAATCTCTGT ATACATAGGC AAGAGAGGGC
GATTCCCAGC ACAAGTCTAG TCCTGGGCGA AACTTCCATC TCTTTCCTCG CATACCTCCT GICTGGGTAT GGGGATAAGG
GAGAGTATGG GATTTTGTTC TCCATTACAT GCTTTTTCAA AAATTTCTGTA ATATGTGGCA CHIAAGAACH GAGACAGAC
AAAATGATAT CGGGTAAAAC ATGCAACTGA GAGCAATTTG GGGAAAAATC CTCAGGACCAC AAAATGTATT ACTG

SEO ID NO:1729: (Length of Sequence = 301 Nucleotides)

GGAAGITAAA GTATITATIG ATGIGITTAA ACTGIGTACA TTCTCCACAG ATCATATTAA GGNGTITKTA GGKGAAGITT
AATCIGIGCA TAGIGGGTAG YGACATGAWT AGGGTCAAAG GGGAGGYAAA AGGAAAAAAA CAAAACAAAA ACAGTCACAG
GAAAWTAAAA ATACACCMCA GGTTACCAGA ACCITCAGGT TTAAAATAAA ANENAAGNAA AAGCAGAAGC AGTGAGCATC
GGCATCAACC TGTACAAGCA TTACAAAAGG CTCCTGTGAC GGAAACACAA TIGTTCAAAG G

SEO ID NO:1730: (Length of Sequence = 312 Nucleotides)

GACGRACGCT CITECCACGC CCTGAGCGTG TACACATGAT GIMITCIATG CATTCACCCT GCCCCCAGC CCGCCCTGCA GAGGACAAGA TGGGTGGCCC CGGCTCCCTT TCCCCTAACC GCCCCTGCCC GCTGTGCAGC CGTGTGCGTT GGCGTGTGT TCTGTGTCAC TGGCGTGTCA CGTGATGTAG CCGTGTTTGC TGACATGAGC CCCTGCCCCC TTCTCTGTTT CTCCGTTGGT TTCTAGAGCT CTCTCCCTCC CCTTCTCAGA GGGGACAGGA CTCCTGGGGT CTGGCTCGGG CCCAGAGCCA GG

SEO ID NO:1731: (Length of Sequence = 392 Nucleotides)

ATCGCTATG GGITCCGGIG CGIGACAGAG GAGIGCCCGC TGGCAGTCAT CGCTGIGGIG GITCAGTCCA TCGIGGGCIG
CGTCATCGAC TCCTTCATGA TTGGCACCAT CATGGCCAAG ATKGCGCGGC CCAAGAAGCG GGCGCAGACG TTGCTGITCA
GCCACCACGC GGITATTTCG GTGCGCGACG GCAAGCTCTG CCTCATGTGG CGCGTGGGCA ACCTGCGCAA GAGCCACATT
GTGGAGGCCC ACGTGCGGGC CCAGCTCATC AAGCCCTACA TGACCCAGGA GGGCGAGTAC CTKNCCCTGG ACCAGCGGA
CCTCAACGTG GGCTATGACA TCGGCCTTGA CCGCATCTTC CTGGTGTCGC CCATCATCAT TTTNCACGAG AT

SEO ID NO:1732: (Length of Sequence = 352 Nucleotides)

SEO ID NO:1733: (Length of Sequence = 321 Nucleotides)

TTTTTTGTT GITTGTTTGT TTGTTTGCAG AGTCTTGCTC TTGATCTATC TCCCAGGCTG AAGTACAGTA GTGTGATCTC
GGCTTGCTGC ACCCTCTACC TCCCAGGTTC AAGCAATTCT CATACCTCAG CCTCCTGAGT AGCTAGAACC ATAGGCACAC
GCCACCATAC CTGCTAACTT TNCTATTTTT AGCAGAGACT GGATTTTGCC ATGTTGGCCA GGCTGGTCTC GAACTCCTGG
CCGCAACTGG ATCTGCCCAA CTCAGCCTTC CAAAGTGCTG GGATTACAGG CATAAGCCAT TCATGTGCGG TTKTTCAACT

SEO ID NO:1734: (Length of Sequence = 208 Nucleotides)

AAGTCAACGT ATCTATTTT ATTATGAAAC ATTAAATTTT GACACATTGC CTCATTTGCT TITTTAAAAT CTATTATCTG
ACTTAAACCT ATTCAGCAAA AATGCCAATA AATTATATTA ATCATACTTT GGGTCTTTTT AAAACTAGGA ACATAATATG
TTTTATGATA AACAATAATA CTAAATCTGA GTTGTATGAA CTGTTAAC

SEQ ID NO:1735: (Length of Sequence = 347 Nucleotides)

TCTATTACCT GTACACTATG GTTTATACGT TGGTGAGTTT CTAAGGGGGA AGCCGCGTAG GGAGGGGGCCCGAGAACGGAC CGGACGCCTG TNCACCCCCA GCCCTGCCCC TTGGCCGCAG AGGCCTCAGC CCTGGGGAGG GAGGGGGGCAC TGGTGCCCCC AGCCTCTCCA ACCCCCAAAC TGCTGCTGCG GGGAACCCCCC CCCACCCCGC CTTCAGAGCC CTCCCCCTTG GACTAGAGCG GCTGGGCAGA GCTCTAAACA GGGGCAGGG CTCCTCTGCC AGCCTGTGGG CATGGCAGTC ATTCCTGGAA GGGGCAGGAC CTCCGGCCTT GTCCATTTCG GGGGGAA

SEO ID NO:1736: (Length of Sequence = 356 Nucleotides)

GACACAGGGA GGGGAACAAC ACACACTGGG GCCTGTTGGG GAATGGGGGG TGAGGGGAGG GAGAGCATCA GGACAAATAG
CTAATGCATG TGGGGCTTAA AACCTAGATG ATGGGCTGGG CGTGGTGGTT CACGCCTATA ATCCCAGCAC TTTGGGAGGG
TGAGGCGGGC GGWTCACGAG GTCAGGAGAT CAAGACCATC CTGGCCAACA TGGTGAAACC CCGCCTCTAC TAAAAATACA
AAAATTAGCC AGGCATGGTG GTGCGTGCGT GTAATCCCAG CTACTCAAGA GCCTNAGGCA GGAGAATCAC GTGAACCTGG
GAATCGGAGG

SEO ID NO:1737: (Length of Sequence = 324 Nucleotides)

TGITITCIAA TGATTITIAA TITITCAGAG GAAAATAATI TCAAGAAATA AAACITAATI CCCCIGAGIC CITATIGAAT
TAAATATIGA AAAACAATGA AIGAAIGAIG CATICITATI AAIGGACIGI AAGAAACIGA TATAATGGAC TICATICIAC
AATTCGGITT CITATIGICI TACACAIGCI CCICGAACII AAACATITIA GGACCITAAC ACCATITCCC TAGIACAATI
ACIAAAAGAA AGCTITGGAT AATATAATAT CAGGGAAGAT AGIACAACAT AGIGAAGGAT GACATAGGGN AGATGTGAGG
AGCA

SEO ID NO:1738: (Length of Sequence = 316 Nucleotides)

GECACCCIGG GCAIGTOCAG CCIGGAGCAG CIGGAGCAGA ACTIGGCAGC AACAGAGGAA GGGCCCCIGG AGCCGGCIGT
CGIGGAIGCC TITAATCAAG CCIGGCAITI GGITGCICAC GAATGICCCA ACTACITCCG CIAGGCCCAT CATGGCICAG
GCIGCCCAAG GCITTINIGI CACCICITIT GITCICICAC ACTGACCAGI CITGGCCTTA AGCIGACITA GAAGGGITTIT
TCIGGAATTGI CIAGATCCAT GCATTATTTI TCIAGCTICC TGCCITGCTC CCIATTCACT TIACACTGIG AAAGGT

SEO ID NO:1739: (Length of Sequence = 398 Nucleotides)

CAAAAACCAT CTCAGGATAC TGAGAAGCCT CTGGAACCTG TGAGTACTGT TCAGGTAGAG CCTGCAGTTA AGACTGTAAA
CCAACAGACT ATGGCAGCAC CAGTAGTCAA AGAAGAAAAA CAACCTGAGA AAGTCATCAG CAAAGACCTT GTTATAGAGA
GGCCTCGACC AGATTCAAGA CCAGCAGTTA AAAAAGAATC AACTTTGCCT CCCAGGACCT ATTGGAAAGA AGCTAGAGAG
AGAGATTGGT TTCCAGATCA AGGATACAGA GGTCGAGGCC GAGGTGAATA TTACTCCAGA GGGTCGAAGC TATAGAGGTT
CTTTATGGGA GGGCCGTGGC AGNGGTTGG TAGGGGGGACA CACTTCGAGA TTATCCTCAG TATANGGGC AATAAGCC

SEO ID NO:1740: (Length of Sequence = 376 Nucleotides)

GAATAAATTC GCAAACTATG CATCTGACAG AGGACTAATA CCCAGAATCT ATAAGGAACT CAAAAAAATCA GGAAGAAAAA AAATCCCATC AAAAGTGGGC TAAGGACATG ANTAGACAAT TITCAAAAGA AGATATGCAA ATGGCCAGAA AGCATATGAA AAAATACTCA ACATCCCTAA TTATTGGGGA AATGCAAATC GAAACCACAA TGCAATACCA CTTTACTCCT GCAAGAATGG CCATAATTTA AAAWTCAAAA AATAATAGAT GTTGGCGTGG GATGTGTTGA AAAGGGAACC ACTTTACAC TGCTAGTGGG GATGTYTAAAC TACTTCGGCT ACTATAGAAA ANCAGGATGG GNGGATTCCT TAAAAG

SEO ID NO:1741: (Length of Sequence = 322 Nucleotides)

CAAATGCAAA AATCAAGALT TGTCATAAAN TGTATCTCCA TAGCTATAC TGTTTAAATT ACTATAC N TOTAGTAAT CTTGATGTTT AATACAGCAA ATGTTAAACC AAGCTTTCAC TACAGAAATA AACAGAAATT TATAGGCGCT CATTATCCTTTTAGACAAAG TTGTATTTGC TTTGCTATTR TTTTTGTTTA GGNTTTKTGC AACTATTTCA CAAACAGGNA CAAWRATATT

TAAATTGITA ATAGAARTIT CCAGITTICI TIAGICICIG GCIACICCAA GIACIGGIIG CIGIGAATGA CCITTICATG
AG

SEO ID NO:1742: (Length of Sequence = 322 Nucleotides)

CCCCCCAGCC AGGAAAAAA AAAAAAGCTT TEAGGAATGA GAGAGGTGA AGAAGGTGCT GGGCAGCCAC
GGGCGCCACG CCTCANTGGC CCCAATTGCC GAAGCCGATC TCCTGCTTGT ATCTGTTAGT GAGGATGTTG GCTTTGCGCG
TNAGTTTCGA GAGCACAGTG TGCAGCCCGC GCAGGTGGTA GTGGAACTNC TGTTCCAGGT CTTCTTCGCC GGCGTCCGAA
CCCTCCAAGT GGCCCAGGTC CACCAGGATG TCCTTGGGAC TTCCAGGCAC TGCCCTNCTC GNTCCCAAGC CGGTNGGAGG
CG

SEO ID NO:1743: (Length of Sequence = 250 Nucleotides)

ATGGGTAGGG GGCCAACGCA GTCACCGCCG TCCGCAGTCA CAGTCCAGCC ACTGACCGCA GCAGCGCCCT TGCGTAGAGC
CGCTTGCAGC GAGAACACTG AATTGCCAAC GAGCAGGAGA GTCTCAAGGC GCAAGAGGAG GCCAGGGCTC GACCCACAGA
GCACCCTNAG CCATCGCGAG TTTCCGGGCG CCAAAGCCAG GAGAAGCCGG CCATCCCGCA GGNCCGNGTC TTTCAGCGAG
ACGNGAGTTT

SEO ID NO:1744: (Length of Sequence = 247 Nucleotides)

GATGATTGAG TGTTTCTTTA AAAATAAAAA CCCCACAAAA AAGCCAGAAC ACCCTACCCA ACCCAGCCCA GTGTAACAGG
TTAGCCATTA ACACAGNATA AAGAWGGTCC CAGCCACACA CGTCATTACT CGGCAGAGGG TGTCCAGKCT GGTCGKCCGA
CGTCACAGTG GATGGCCCTG CGTGGCTGGG RCACAGACAG GGNGCAGGCA TGGCACCTTT CGNCACGCAG AGCAAGCATA
GGCTGTA

SEO ID NO:1745: (Length of Sequence = 379 Nucleotides)

TICTARACCA GITARTARAT TCATTCCACA AGTATITACT GATTACCTGC TTGTGCCAGG GACTATICTC AGGCTGAAGA
AGGTGGGAGG GGAGGGCGGA ACCTGAGGAG CCACCTGAGC CAGCTITATA TITCAACCAT GGCTGGCCCA TCTGAGAGCA
TCTCCCCCACT CTCGCCAACC TATCGGGGCA TAGCCCAGGG ATGCCCCCAG GCGGCCCAGG TTAGATGCGT CCCTTTGGCT
TGTCAGTGAT GACATACACC TTAGCTGCTT AGCTGGTGCT NNGCCTGAGG GCAGGGCAGG AAAATCAGAA TAGCATTTGC
TTTCTCTGGG GCAAAAATGG GAAAGTTCAG CGGGNNGCAG CAGGAATCAA GTGGGCATT

SEO ID NO:1746: (Length of Sequence = 472 Nucleotides)

TTCATGCTGT CCCTTCATTG AATTITAGAA TGATTGAAGA TAGTGGGAAA AGAGGAAATA CCATGGCAGA AAGAAGACAG CTGTTTGCAG AGATGAGGC TCAAGATCTG GNTCGCATCC GACTCTCCAC CTACAGAACA GCATGCAAGC TTAGGTTTGT TCAGAAGAAA TGCAATTTGC ACCTGGTGGA CATATGGAAT GTCATAGAAG CATTGCGGGA AAATGCTCTG AACAACCTGG ACCCAAACAC TGAACTCAAC GTGTCCCGCT TAGAGGCTGT GCTCTCCACT ATTITTTACC CAGCTCAACA AACGGGNTGN CAACCACTTC ACCAAAATCC ATGTGGAGCA GTCCATCAGN CTNCINCITA ACTINCTGCT TGCAGCGTTT TGATNCCGGA AGGCCCATGGT AAAATTTTCA GTATTTGCTT GTCAAAAANG GGTTTTAGGC NCCATTTGTG TGGGAGGGGA AG

SEO ID NO:1747: (Length of Sequence = 351 Nucleotides)

ACCATCAGAA TACTITAATA AGATACCAGT GICAAAATAC ATTICCITAT AAAGITAACC ICCCATACAG ITATAATATI GICAGTAGGA ATTICGACAAT ATAATAACGI TCATCAAATC GITACCITCAA CAGGTAGGGI TAATATCA GAGTAACAC TITICCAGTGI TITAGTAAAA CIGCAAGGGI AAAATGCCCI TAATGCCAGG GCAACACAC CAGGNAATCA AATACCAGCA TTTACACENC AGTAACCCTT CAAGTTCTGC CACCCTGTGT GGGGGTAATG CCGTGCAGCT AAAAATATGG GTTTTACGNA ACANCCATGG CCTAAGGGGA TTTCTCCATAG G

SEO ID NO:1748: (Length of Sequence = 428 Nucleotides)

AATAGCTICA GCIGATIGGG TGAGTCCTAT TCATGTTATA AAAGGTACTC TGCTTTCCTT AACATTCCAT AAATCTAAT
CACATCIGCA AATACCTICA CAGCAACATC TAGACTAGTĞ TTTGACCCAA CAACTGGGCA CAATAGTTTA GCCAGTTTTA
CACATAAAAC ATCATCACAC TATGCTTCTC TTCTGTGTTC TTTGTTACCA CGTATCTGTT CCATGTGTTT TNCTTTGTAT
ATATCCTATC CTGTCATATC TCTCCTATGG TTTTGTGGGAA ACTATAAGCC TTCTGGGGGG TAAAACACTA TATCTTTGTT
CAATTGTTAA TACATCGNAT AGCATATCAT GCCTGGGGGC ATTGGTTAAA CCCCCCATTT AAATACAGCT NGGCAGCAGG
ATTTTAGGCA TTCCGTCATG GTGTGCCA

SEO ID NO:1749: (Length of Sequence = 478 Nucleotides)

GGTTTCACCA TGITGGCCAG GITGGTCTCA AACTCCTGAC CTCAGGTGAT CCACCTCAGC CTCCTAAAGT GCTGGGATTA
AAGGCGTGAG CACNCACA:: CACACCTGGC CCTCAACCAT CTCTTTCACC TTCTGCTCAT GACAGTTTAC TAGAATTTTT
TTCCCTTGAG ACTGAATGT: AAGTCAAAAA CAATAAAAAA TTGCTAATCA TTACTATGAC TCCAGAGCTA CTTGCTTCTT
TAAAAATTCC TGAANTTATA AAATATAAAG CCAAAGCAAT GAATTTCTAA TGGTGGAATT GTAGACACTG TGGGCCCCCT
GGTTTTGTTA TTTTCAGATG GGGCAAGGGG ATATTCCTAA CCTATTTTTA AAATCATGCC AGCCTAGATA ACTATGTGAA
AA...ATATGG GGTGCTTAGC AAAACTATTA CCTAGCACCC CTTTGGCAGT TTTACATTAA AAATCCCTTT ATTAGGTT

SEO ID NO:1750: (Length of Sequence = 439 Mucleotides)

GACATTITAT TITCCAGGTIG GCACGIGIAT AAGGCACAGG GGCAAATGGC TITGGGGTCC TGGAACTGGA AATGGAGACA GGIGIGICTC AGGIGICCCT GCCTCCACCA CCCCCTAAGT GCACTTGAGA CAGGACCAGT GGIGGIGGIT CCAGCCCAGG GTCCTGAAGG GINCCACTGG CTCTAGGGGA GAGCCATGGG GACAGCTCCC CAGGCGGGAC CCTCTACTCT CCAGCTACCC AGGAGGGACC CINTCCTCCT AGGGGGCGAG GCCAGCTCCA AAGIGCTING TGGCTCCCCA GGCTTAAGGG ACCAGNCTGC CAGGGAGGGC TNGGNTCANA GAGAGAATAG TAAGATNAGA CGAGGAGAAG CACCCCACTA GCACGGCGAT TGGANAACAC TNTCGGCGGT ACTCGTCATG TGGGTAATTT GCCAANTTC

SEO ID NO:1751: (Length of Sequence = 347 Nucleotides)

CTCIATIACT TATGATTACA CCATGGCAAT ATTCCTTTT CACCAGGAGC TTTGGACCTG CGCAGGTTGT GGCATGTAAT
CACCCGGAGC ATGTAGTCAT CTGTAGAAAT CACAGGCACA CTCATGTTTG CTCTGGAAGG AATCTGTTTT CCACAATGAC
TCCCCCCAGC TAATGTACAC ACTGGCATT TGCATGCCTT CCTCACACAT GGGGCACCAG CCTTGCTTCA GAACCACCCA
AACTCCACAG AGGCCCTTAA ATATGGGCTA GGGACAGATT TTCTTTAAGA AAGAGTTAAG GANGCAGCTT ACAAAGGGAC
AAGGCAAATT CCACAAGTCA GGCAGCA

SEO ID NO:1752: (Length of Sequence = 297 Nucleotides)

GGATATICTA GCCATACAGA TICAATGGAA CAGAGAAGAG AAAGGAGGIT CCATTGGCAC CATAGTGAGC CATTCATTTG
CCCAGGGAAG NNGGTGGGGG CTAAGGGGCT AGGITTGGTC CCATGGCTAC ATTAAATGCT TGGCATGACT CCAGGGCTNC
TCTAGTTAGT GGCTCCAGCA CAGTATGAGT TAGGTGAGTT AGGTGTAGGA GTTTGGGGAC AAGGAAAAAG GGAGGAGGGG
TCCCTAGAGG CTNGGTGCCC ATTACATAGA CTCAAATTCG TCAATGCGCT GCTTTAG

SEO ID NO:1753: (Length of Sequence = 402 Nucleotides)

AAATTTAACT TCAACAAGCT GETGATGCCC AACTACCCAT TCATCAACAT TCGGTCAAGT GGTGTGGTTC CTCAGAGTGC

ACCACCAGTG CCAACAGCCT CTTCCCGGTT CCATTTCCCA CCTCTGGACA CCCATTCTCC AACCAATGAT GTGCAGCCGG

GACGGTTCTC TGCTAGCTCC CTAACTGCTT CTGGCCAGGA GTCCAGTAAT GGTACTGATA GAAAGACTGA GCTTTCAGAG

CTGGAGGATG GCTCAGCTGC TGACTGGCGC CGGGGTGTGG ATCCCGTGTC CTCCAGGAAT GCCATTGGTG GAGGAGGGAT

TGGCCATCAG AAACGCAAGC CTGACATAAT GCTTCCTCTG TTTGCTAGGC CAGGGATGTA CCCTGACCCC ACAGTCCTTC

GT

SEO ID NO:1754: (Length of Sequence = 397 Nucleotides)

CAGTIGGCATC TATGGCTCTA AAATGGAAAG GAGGAGTCCT GGATTCAGGC TACTGACTTA CTCTGTGAAT TTACACATAA CTTCCTTTGA GCCACAGATT TAGCATTCTA CCAGTICACCT GATATTTCTG AGCAGCCACA ATATTTTAAA ACTATATTTA AATCTGAATT TGGATTTAGC AGAATTTTAT TTTTTCCATT TCTATTTTCT ATGGTCACTA AATTGAAATT ACAACCATTG TAAAAATTTGA TATCATTAAA TATGTAGGC TTTATCCAGT TTCAAAGTAA AGATGTCTCT AATGTAATTA ATTGTATTT TCACTGATGA GACTGAAATA CAATCAGTCT GTATTGTGTG GTGCGTTATGT ATCAGTGGTA AGAGGCTATG ATTAGAC

SEO ID NO:1755: (Length of Sequence = 353 Nucleotides)

GAATTACTCT GTTGTTCACC TTTTGCTTTT TGCACTGTTT GTNCTCTTAT CTGTATTTTG AGCTTAGTGC TAGGACTGAG
AGGCTGCACC ATAGGGAATG TATGGGAGAT GGTGAGGGGT GCCAGTNAGG GGTGCGTGGA GGAGAGGCCT GGGCTCCTCT
ACTGGATCTA CACTCTGTCC CAGGTTTTTA GATCCCACTG AGCCCAGCTG ACTGAAAACA AGGACAGTCA GGGTGAAACT
TCTTTTGCCA GAAGTGTGGC CTGAGTTGAA TTTCTGGGAG GATGACGCAG ATGTCTGCTG CAGAGCTGGG CTGAGAGTTC
TNCAATCTAG CTCTGACTTA GGTCAAGGGG CCT

SEO ID NO:1756: (Length of Sequence = 184 Nucleotides)

TEGECTOGGA GCATOGAGCT GGACATGOGC ACCATTGCCA CTGCACTGGA ATATGTCTAC AAAGGGCAGC TGCAGTCTGC
CCCTTCCTAG CCCCTGTTCC CTCCCCCAAC CCTATCCCTC CTACCTCACC CGCAGGGGNA AGGAGGGAGG CTGACAAGCT
TTGAATAAAA CACAAGCCTC CGTT

SEO ID NO:1757: (Length of Sequence = 425 Nucleotides)

ATTACAGGOG TGANCACCAC ACCTGAGCTA ACTTCCTGGC TTTTCAATCA AACCATCTTT GTCACTTCCT GTCCCCACCT
GAAGTCAGAA AGCCTGAAGA GAAGACGGCT CTATTGCCNC AGCTGGAGTG TGGTGGCACA ATNTCAGCTC ACTGCAACCT
CTGCCTCCTG GGTTCAGGCG ATTCTCCTGT CTCAGTCTCC TGAGTAGCTG GGATTACAGG TATGCACCAC CACGCCCTGC
TACTTTTTCG TATTTTTAGT AGTAGAGATG GGGTTTCACC ATGTTGGCCA CGCTGGTCTC TATCTCCTGA CCTCGTGATC
CACCTGCCTC AGCCTCCCAA AGCGCTAGGA TTACAGGCGT GTAAGCCACC ATGCCCCGCC AATTTTGCCA GTTTTTATTG
GGCTATTCCT TATTGAGATC TAGGG

SEO ID NO:1758: (Length of Sequence = 407 Nucleotides)

AGGAAGGCAT AAGCTAAGCA TCCTTCTAAC CAGTTCCCAA AGTCCCATCT GCCTCCATGT ACCAGCTGAT CGCAGAGCTG
GACTGGGGCA GGCTGGGCTT CCAGGAAATT CCTGAAGTTC TGAAACAGCT TCCCCTCTAG AGAAGCCCAC CCAATGTGTT
TTTTAGTGAC AGGAAGAAG GAGGGAAGAG CTGATGTGGT GTGGCCTGCC CATATCATAC AACCCCACCA GGAGCAGGGC
AGTTCCCCAAG GTGGGTGCCC GTAGATCTGG GAGGCCAGGC TGGCATGATT CCTGTGAAGA ACTGTGCCTG TNTCGTCAGG
GAGAGGCCTG AGCCCTCTCA GAAGCAGGGA CAGCCACAC TGAAGAGCAC GCCAAGCTGA GGCAGCAGGA GAGCAGGT
GAGCAGT

SEO ID NO:1759: (Length of Sequence = 386 Nucleotides)

ATATATTTT TITGITAAAT TICTITGIAT TITTITCCIG CAAGACITGG TGITGGCGGC ACTGITGIAG TITAACTICA
ATCCCAAATT CCATGAAATA GAAATCAGAA GIAAAGGITG AGAGGGAGG AAGGAGGGAG GCAAGCCAAG GAATAAACAA
GAGITTGACT AGAAAAAAAG AAGAGGGIAT GIGTGGTGGG CATTCCIGGG CAAGGCCATT CCTTGAGGGA GGGGGITGGC
AGGCAGCTTG CCTCIGCCIC ATGCAGGGGA GGGAGGAAAG ATCCCCTGGG GACCCTGCAG TCCCCTCTIC CTAGGGCTTC
CTGCTCCCAG GGGAAAAACT AATACCAGAG AGGATCAGC CACAACCTNA AACAGGGCTC TTCACC

SEO ID NO:1760: (Length of Sequence = 395 Nucleotides)

CTTCATGCCT CTGGCCGGGT CCAAGCTGGC CAAGAAGAG GAGGAGGCCA TTGAGAAGGC CAAGCGCGAG GCTGAGCAGA
AAGCCCGAGA GGAGCGAGAG GNGAGAAGGA GAAGGAGAAG GAGCGGAGG AGAGCAAGAG CGAGAGCNTG AGGCAGAGGG
GGCGGCTAAG GCGTCCAGCT CAGCGCATGA AGGTCGCCTC ANTGACCCAC AGCTCAGTGG TCCTGGCCCAC ATGCGGCCAT
CCTTCGAGCC ACCACCAACC ACCATTGCTG CTGTGCCCCC CTACATCGGG CCCGACACAC CTGCCCTTCG GACTCTGAGC
GAGTACGCCC GGCCCCACGT CATGTCGCCC ACCAACCGNA ACCAACCCTT CTACATGCCC TTAACCCACG GACCC

SEO ID NO:1761: (Length of Sequence = 378 Nucleotides)

SEO ID NO:1762: (Length of Sequence = 351 Nucleotides)

TGATAAATAA AGAAGITCAA AAAAATCTIT TAATAGAAGC TATAAAATAG CAGATAAGCI AAGICATTCI CATAAAACAC
CATTIGICAT TIGAATGCGI GCATTGIGGC CIGITACTIT TAACTAGICT CACTAATTIA TAGITATATA TGATGIAGAT
CTAGATTGIG ATGIACACTA AGIGGGITGA TCCYGAGATC AAGCTATGAT TGCTGCTTGC GIAAAGIGIT CCYTTIGGGA
AATAAATAAT CITICATATC TGIAAACTIT GGIATAATTG GITATTTATG CAATGIATTG TTGTGGTTGT CAACTCAAGA
TTGTATTCTC ATCTGGGGAC ATTATGAATC T

SEO ID NO:1763: (Length of Sequence = 157 Nucleotides)

GTGTWTACTT AGTGTGTAAA GTGAACAAGA AAAGCAGCAT AATAAAGGAG CTGTGTTTTT ATCAGAGGAG CCTTCCTTCT GAGTTTTTAC ATAAGTTGAT GCCTTCACTG CAACTTTGAA TACAGTGCTT TGAATGTTGA AACACTTGAA TAAAATG

SEO ID NO:1764: (Length of Sequence = 321 Nucleotides)

GCTCCTCTGC CTTCAACTCC TCCAGCITCT NACCACTTGG CAACGCACCA CTGCCAGTTC CTCTGGGGCT CTCAGAATCA CTGGAGTACT TCTGCAGCTC TCTTGGATGA CCTAGGGGTG CAGCAACAGG CACAAAGCTC TCCTCCAGGT CCTGGATTTC TTTATTTCTT CCCTTCCTTC TCCTTGGTGT ATTINTCCTG TGAGNGTCTG ACTCTATCAC TTTCAAAGCT GTGCTGTGGA TTTGGGTCTT TAGATGAGGC TTCATGCCCT GGNATAAGCA AAGGAGCCTG ATACAGAGTT GGCCTGCAGG GAGCAGCTTT

SEC ID NO:1765: (Length of Sequence = 420 Nucleotides)

TCACGCCTGT NATCCTAGCA CTTTGGGAGG CCGAGGTAGG CAGATCACCT GAGGTTGGGA GTTCGGGACC AGCCTGCCCA
GCGCGGAGAA AACCCGTCTC TACAAAAAAT TTTAAAACTT AGCCAGGCGT GGTGGCGCCAT GCTGCAGTTC CAGCTACTCG

SEO ID NO:1766: (Length of Sequence = 373 Nucleotides)

GTAAAATACT AAGACACTAA ATGCGTATIT TAAATTIGCC CATTAAGITT TGGCCTGCGT AAGAAATTAG TAAAAAAATAT
TTCCAAATAA CATGCAGAAG TTGTTTTTAA ACITAAAATC TCATATTITA GCTACACCCA CAGCGATGCT ATAGAGAGA
GCTGGATTTC GTTGTATCTG AATGGCTCAG ATTATGTTCC TTCCAAAAAA GTTATTTTAT GTACGATCAT TTTTTTATATG
ANGCATATGA AAAATCACCC AGAATCTACC ACGTATTTAC CACATAGACA AATGTCCATC TTTAGATCTG TCATTCAACA
CCATGTTATT CTTTTTATGC AACAGAATGC AGTGTTGTGA GAAGTACATC AAG

SEQ ID NO:1767: (Length of Sequence = 330 Nucleotides)

GETGACAGTG COGGCANAGO AGCAGCATGG TGGCAGCCAC CAGTGGGCCT GGGGCCCCCG GGGGAGAGAGA TGCCCCAGAG GTGCATGAGC AGACCTCGTA ACCGTCCTCC GAGCGGCTCT GGTCATGTTG TCCTGGAGGG GCGCGGGGC CCTCTGCCGC GTCCACGCCC GCAGCCACAG ATCCATCGGC CTGTGAGTCT CCACACACCA GCCAGTCCCG GGCCGTGGAC TGTGGGTACC CGGGTGCCAC CTCCAGCTCG CCATCCAGCA CTTTCCAGTA CTCCTGGCCA CGGAAGAAGT AGGAGGCACC GTNGGACCAG CGCATGGCGT

SEO ID NO:1768: (Length of Sequence = 361 Nucleotides)

AACTGGAAAA CCAAGACTGG TAGACTCTCT TTTTCTTCAG ACAATAGGCA GGAGCCAGGC GGAGTCCAGG GATTCTTGGA
ACACCTATCT TTTCTTCGGA GGACACTAAG TTCTATTTGA AGACAAAGTT CAATATGGCA ACAGGACTGA TGGGACACGA
AGGAGTCGCT ACCGTGATTT GGTGACAGTT CTTCAAAACG ACAGTNTCTC AAGGAAAGGT GGACCTAGGA ACTCCTGAAC
TTTTGGGTTG CCTTAAGTGA GAAATCAGCA TGGCTCAGGC AAGTCTCCTG GCTTGTGAAG GCCTAGCAGG TGTGAGTTTG
GTTCCCACTG CAGCCAGCAA GAAGATGATG CTGAGCCAGA T

SEO ID NO:1769: (Length of Sequence = 389 Nucleotides)

CAACTACCGC AGCGCCAACT TCAGAGAGCA CATCCAGCGC CGGCACCGGT TITCTTATGA CACTITIGIG GATTATGATG
TTGATGAAGA GGACATGATG AATCAGGIGT TGCAGCGCTC CATCATCGAC CAGTGAGCAG AGTCCGIGCT TGCTATCTGT
CTCATGITAC AGAGCTTCCA TTACATATTA AACGTGAAAT CTATGACTCC TGTACCTTAC CTGTTCAACA GACCTGAAAA
TGAGCCATGG CATTGGGACA GGGTCACTTC TGACAGGGGA AGTGGGTCCC CAGGTCAGCC CTTCTCTTCC CTTTGGGCTC
TTGCCAAAGN TGTCTTCCCC TACTGTTAAN CTTGTTTGTC ACACGGTCGA GTTCGTATTG GGTTCTCGG

SEO ID NO:1770: (Length of Sequence = 394 Nucleotides)

GCAGITTAGA GGAAGCTCCT TCTGGGCAAG GTCAGGCGGT CCTCCTTCCC TCTCTCCTTC CCCTTTGTCC CAGCCTCAAC
TGACTCTGGC TGTGGGAGGT GTGGAGGGTC CTTAGGCTTC CCTCCCCAAC CTGGCCTCCA CCAACACCCC TAACAGGAGG
CCCGTGGAAG GCTCAGGCCTC TCCTCCGCAT CCCTCCTCCT TCCTGCCTAT CGGAGGGAGC CAGGGTCCCC TAGGCTGACC
CTGAATCCTC TTCCTCCCTT CATGGGAGGG GGGCAGGAAT CCAGAGGAGG ATGAAGCCAG CGGACCACA TGGCTTNGTG
GCTTNGACAA ACAAGCTCAG GGAGGAAATG AGGAGGCGNC GGCTTCAGAG GATTGCCAACC CTGTTGGGCA CAGAC

SEC ID NO:1771: (Length of Sequence = 373 Nucleotides)

CAGAAAAGC AAAGITTATT CCAGTGITGA CAGAGAGAGG GTGAGCCTTG CACAGCAATT CTAAAAACAT GTCATCTCCT
TCACCTAAGA GGTAAGANCC GGCTGIAAGT CATGGGGTCA CTAAACCGGC CGCAGTTACA GTAAGCAGAA GAGGTCACGG
CTCAGGCCTT CTCAGACTTT CCCTGGGACA CACGGCTCTC TGGGGGGGGCC CGGCGAAACC ACTCGGACCA GGAGCCATCG
TACACGGCCA CATCAGGCTT NCCGCAGAGG TAGGCAGCCA AGGNCACGTG GCAGGCGGTG ACTCCCTTGC GGCACGTGGC
AATGAGAGGC TTCGAGAGAT CCACCTTCTT GGGCTTGAAC AGAGCACGGA GCT

SEO ID NO:1772: (Length of Sequence = 281 Nucleotides)

AAAGTGCTGG GACTATAGGC GTGAGCACTT GCATCCGGCC TAGGTGGGGT TTTGTCCCCG TTCTGCAGGA GGGAGACTGA
GGCTCGGAGG TTCAGGGCCT GCTTGGCTGT ACCCAGCCCC AGTATGTGCC TTGGCCACAC TAGTCAGATC CTTCCCCTCC
CACTCCTGCC ACCCTGCTCC TGCCCTGTCC CATAATCCAG GTTGAATGGG GGTGGGGATT TTNGGGAGCA AGGAGGGCTC
AAAGAGATGG AGATAGGNCT GTTGTCAGGC CAAAAGTGCA A

SEO ID NO:1773: (Length of Sequence = 401 Nucleotides)

CTCTCTGCCA TGCIAACCAA CGTAGAAGAG AATAAGATAA AGCAATGAAA AGCAGAGTGG CACTCTGATA TATAAGATTC
TCTAAGAAAT ATAGAGTGAA TTTTGCCCAA AGGCCCTCAC TGAACTAATT CCTGAACCAA AAGAGTATTT CTTAATCCAA
AACTTTACAG TATTAGACCT ACGAATTCTG ATGATGCCTG ATCAGATGCT AGTTGTTCTC GACAATCCAT GCAGTTTTCC
AGTATGAAGG AAAGTAACAA ATATACCATG GITATTCTTA TTTCTTTCTG AAAAATATCT AGGATATTTT ATAGTGTCAT
GTGGTAAAAAT ATTCATTTGA CANTCACAAT GAAGTATAAT CAGAAGTATT AGCAATTTTA CTTTGTTTATC
C

SEQ ID NO:1774: (Length of Sequence = 230 Nucleotides)

TCTGTTAAAA AAAAGTAAAA ATGTTACACA TAGGNAATAA ATGTAAAAAAG CTATACTTTG CCAAAATAAA GTTTCAGCTG
AAGGTAATGC TAGTTATAAA TTAAATACAA TTCTATTAAG NNCTTGCAAA AGTCAAAAGGA AGACGGNAAA CTCCCTCTTT
TGGCAATTCA AAGGCAAAGA CCTGTTCATT TATTCTTAAT TTTNCTTTAT ACAATCATTA TCCCCCACAG

SEO ID NO:1775: (Length of Sequence = 359 Nucleotides)

ATTCAGGACA TAGGCATGGG CAAGGACTTC ATGACTAAAA CACCAAAAGC AATGGCAACA AAAGCCGAAA TTGACAAATG GGATCTAATT CAACTAAAGA GCTTCTGCAC ATTAAAAGAA ATTACCATCA GAGTGAACAG GCAAACTACA GAAAATCTAC CCATCTGACA AAGGGCTAAT ATCCAGAATG CTACCTAATT TTTAAAGACT TTTTCCGGCA TCTTGAAAAAA AACCACCATT ATTTGACATA GGTAAAACTG AAAAAACAAA CTATTCATAA TTACAATTTG TGACACATTA TGTAGTAGCT AGGTTCATCA CATAAATTAC ATGNTACCCC AGTTCAAGTT AAATTTCAG

SEO ID NO:1776: (Length of Sequence = 375 Nucleotides)

GGCAGAGGCT GCAGTGAGTC CAGATGGTNC CACTNCACTC CAGCCTGAGT GACAAAGTGA CACTCCATCT CAAAACCCCA
ACTCCCCCCA AAATTITTAA TITGGTTTGC ATTTCTTTGA TIATGTTTGN GGTCGATTGA GACTTGAGGC TGGCACTGGA
GCAGGCGTTC CCACCTGTCC CGTGAGGCAA AGGTCGTGGG GAGTGACCAA GTGCATCAGG GGGTGCAGAT GCCCTATTCT
GGCTCTTTCA CGCTCAGCCA TCTTAGCATA NGTGAATATA CCATGAGCTG TTTCTCAGCT TGTTTTATTT TCCTGGNGAG
ATAGATGTCA CTGGAATGGN CTTTNTCCAA GTGAAAGGCC ATCTTGTGCT ATGAC

SEQ ID NO:1777: (Length of Sequence - 327 Nucleutides)

GATAAGGGAG GAAAGGCAGG AGGAGATGAG GCCAGCCCCA CTGATGACAC CTTGGGCCAG GCCTCACAGC TGCAGGCATC AGCCGGAAAC TCCAGGCTGC TCATGGTCAC TGGCGGTGCT GAACTGTCTC TCCACTTINT TTTGGTCCTT GATCTTGAGT

CCAATGTCCA CTCTCTTCTC AAAGAAGTTC ACCAGCACGG ACTCCGTCAG GATGGAGGCC AGGTTCTGCT CAAAGGAGAT
GCACCAGTCG GTGTCGACGG TGCCGCCGAT GCGGCCTGTG GGGCTGCAGG CCTNCCCGGC CACCAGCACC GTGTCGTCTG
CAAGGTCTTC ACATTGCAGG GAGCCCGTNC TGACCACCGA GTAGGAGGAC ATGGACATGT CGTCTTT

SEO ID NO:1778: (Length of Sequence = 297 Nucleotides)

CCCCCCAACT AGAAGAATAC AATTAAAAAA AGAGGCAGTA CACATGGTTA ATAAACAGAT GAAAAAATTA AAATTCACTT
GTACTATAAG ACAGGCAGAT TAAATTATTT TTACCTATCA AATTAACCAG AACAAAGGCA TGCACTTTAG TGAGGATGAG
GAACATACAG ATTCACTGGT GAAAGTAAAT GTACACACAA CCTTTCAAGT TGATAGTTTG GCAGAAGTTG CTAAAAACAT
TTAAAGCTTT CATACTTTTG ATAAGGCTTT TTATTTTAGA AAACATATAA ATAAAAA

SEO ID NO:1779: (Length of Sequence = 353 Nucleotides)

CAGAAGTAAA AGATTTWAT TGTYCTATAG ACACTTCTGA AAAGAGATCT AATTGAGAAA ATATACAAAG CATTTAAGAG
TTTCATCCCC AGAGACTGAC TGAAGGCGTT ACAGCCCTCC TCTCCAAGGC TCAGGGCTGA GAACGGTTAG CATATCGAWT
GATCAGTAAA AACATGCAAA AGTGAGAAGG AAAGGGAAAA AGGTGCATTC CCCTAAGCTG AGGGGGATGG AATTTCAGAA
CAGAGGAGGC AGGGTGGACA AGTACCAGGT GGCTCTCCCT TTCCCTCTGT GTTATCTTTC AAAACAGTTC CCAAGCTTAG
NGGAAAGCAA TGAGCTCCAC CCTAYTCAGC AGA

SEO ID NO:1780: (Length of Sequence = 428 Nucleotides)

CGGCTTCCCC GGAGCAGCCG ACAGGGCCAC AGGAGAATGG TATGCTGCTC GGCATGGAGT GAAGACCACC CCGTGTGCAA
TCTGTTCACC TGTGGGTTTG ACCGGCAAGC CATTGGTTGG AACATCAACA TCCCTGCATT GCTACAAGAA AAATAAGGAC
ACCGCCAGCC CTTAGTTTCA CTGTTTGCCA GCACAGACCT TTGATGGGTG CAGGCTTTTC TGCGTATTAA TCAGCCATTT
TTGTGAGAGT TTGACCCTGG AAAGGGTGCT TTGTATATGT TCTTTTCACA TAGTGCCCAG CTTGCATGAA ATGTACAGAG.
AAATGTGTGG TCGTATTTTT TACTTTTGTC TTGTATATGT ATGGATAATT NGGGTCCCTT GGGCAGTAGA GGCAAAGCTC
ACCTCCCATG TAGCACATGA AAATGCTT

SEO ID NO:1781: (Length of Sequence = 459 Nucleotides)

ACCICAGATI GIGAAGGCI CIGIAGGCIA IGITAAGGAC ACTAGAAATC TATIGAAAGG TITTAAGCAG AGAATIGACI
TGCICATATI TITNCITCAA AAAGCICAAT AGCIACAAAA CGGICAATAG ATGGIAGCIT IGIGGGCIG GGGIGAATGC
AATGATATIG CAAAACAAGA TATAGGGAGA CAAGAACIIT TAATAACCTA AACCAGIGGI TCICAAACII TCCATGCATC
AGAATCACCI GGATGACTIG CGAAAACACA AATAATCAGA CITAATCCCI ACATITICIG ATTTAGCAGG TATAGAATGA
GGITTAAGAA TITCIAACAA GITCCCAGAT GGCGIAAGGI GICICTCAGG GITTITACIT GAGCAACIGG GIGGATCCNG
TGGATCITAT GICCCINCGA GIAAGGGGIC AGGIACAGCA TICICCGGIC AGATTGITT

SEO ID NO:1781: (Length of Sequence = 420 Nucleotides)

GAAAGCACAG GAGCCTGCTT CCAAAGAGGG ACTGTCCCGT AATTNAGAGA TGCTCCAAGG CTGACCATCC TCCTTCTCCT
GCTGCACACC CAGCAGCCAT CTATGGCTGG ATTTGGAGAA TTTCTGGTCA AACCGGTGAG TATGAGGAGA GCAGGGCAGT
TGGGGAGAGA GGTCCCAGCC CAATTCTGCC CAGAGAAGCT CCCAAAAGAG AGGGAAGTGT CCTGATGAAG AGCCCATGAA
AGGGGTGAGA CCCAGGAGGC TGTGGAGATT GCTGCGGGCT CCTCTGGTCA GTAAGGAACC CTGACAAGAT CCCTAGGATG
GGGGTCCCTT AGTCTCACTG AAGTTCTTGT AACTTNGGA: TGGGCCAGC TCANCCTCCT CTGATACCCG AGCTACAMAT
CTGGCTTCCC AMITCTAGAG

SEO ID NO:1783: (Length of Sequence = 427 Nucleotides)

AGAGCITAGC ATGCTGTTGG TTCATGTTT TATGTGTTTA TTTCACATTG ACTTTTGCCG TGAGCTTTGA GGGAGACAAC
ACCATCACAT ATGTGTAAAT TGTAAAAGAA TTGGGAGAGA ATAGCTTTGG GAGATCATTT TCTTACTGGC CATGATGAAG
AAAGCTGTAT CGTAGGAAAA TTACTAGGTA ATTTTACTCA CTTGATAAAG TTAATTTGCA AGGTATCATT CGATTGGTAG
AGTTACCAAA ATGAGAGTTA AAGAAACAGA AATATGGTTT CAGTTTATGG TGCATTCTTA TCTTTTTCAC TGAGTCTATT
TCTGTCTGGT TGCTTCACTT AGTACTCCAA CCAGACAAGA GGAAGACAAC TATGCTAGTG TTTTAGGAAA TGGGACAGAA
TGGGGTGATT TAAGTAGGAG CCNGGGT

SEO ID NO:1784: (Length of Sequence = 428 Nucleotides)

ATGGGATACT AATGCAAGCA TTCAGTGAAA AAAGTAGATT ACCAAACTAT ACGATCCTCA TTTATTITIAA AAAGTGATAT CACCCAGAAA AAAATAAGAA AGATAAAAGA TGTTGGTAAA ATAACTAAAG AATAAAAAATA TAGGGGAAAA GGTAGCCAAG GGATAGATAT TGATATTCAT TTTCTTTTTA CAACTTTATT AAGTTGTAAT TTGGTGCAA CAGATTGCAT ATATTTGANG TATATAAACTT GACTAATTTT GACAAATATA TACACCCATG AAACTACCAG TTATAATTTT AAACATTTTC ATGGCCCTCC AAAGTTTCCT TGTGTCCTTT TGCAATACAC GCAAACACAC ACACCCCACA CACAGTATGT AGGGCAACCA TTGATCTGCC TTCTGTTACA ATAGGGTAGG TTTGCATC

SEO ID NO:1785: (Length of Sequence = 414 Nucleotides)

GIAAACAGAT TACATTIGAA CACCIAAATA AGIATTIGIT TCATAATCAT TACATGCTIG TITATGATIT ACAAAGATIT
GGTAGAGAAA AGIACAGTCC TITAAGGCATA TATATGCCAA TGCATTAAAC TACTCAGCTT TIGIGCCAGC TCAGGIGITC
ATAGGAACAG GAATGIGGAA TACCAGCTIT TTACTTTAAT TATACTTTTA TGCTGAATTT TTCTTCCAGT TAAACCTTTA
ATTACACTAG TATGIAAAGT AGITACTGAG AAAAATAAGT TITTGATTTC CCTTCTGTTG GATCTGTAAC ATTTTTAAAT
GGAGCTATTT AACACATGAC ATGCTAATGT TACTTAATGG GTCTCTGCAT TTTAATTTTA NGAAACACAA ACCTGGGTCA
CAAAACATCT TCAG

SEQ ID NO:1786: (Length of Sequence = 397 Nucleotides)

GTTATTCCAA CCAAAATTTC CTAAGATTGA AATGCAGAAA CTTACAGAAT TGAGTAAAAA GACAAAAACG TAAATACTAA
ATATTGAAAA GATGCAAGIN CTCCCCAAAT ACACTCATAG ATTTAATAAA ATTCAAATTT AAAGGCAATT AATTAGGATA
GAGGCAAGAA TCTGGGAAGA AAATTAATCT GAAGTTTGTC TGGAAAAATC AATGCGTGAA ACGAAAATAT TTTAGGATAA
GATTAATGAG AAGTAAAATT ATTTCAATTA TAAANGTAAA ATGATAAAAT AGTTAGACCT ATATGGTACT GATGCCAGGN
ATGTTATACA AAGCTACGTC AAGGCTTGAG GATAATTTIN TTGAAGATAT TCGTGGGTAT CTCATTGGCT ATAAAAG

SEO ID NO:1787: (Length of Sequence = 408 Nucleotides)

TCCCACAATT GACAATATAT ATGCATGIGT TTAAACCAAA TCCAGAAAGC TTAAACAATA GAGCIGCATA ATAGIATITA
TTAAAGAATC ACAACIGIAA ACATGAGAAT AACTIAAGGA TTCTAGITTA GITTITIGIA ATIGCAAATT ATATTITINC
TGCTGATATA TIAGAATAAT TITITAAATGI CATCTIGAAA TAGAAATATG TATTITTAAGC ACTCACGCAA AGGIAAATGC
ACACGITTTA AATGIGIGIG TTGCTAATIT TITICCATAAG ANTIGIAAAC ATIGAACIGA ACAAATTACC TATAATGGAT
TTGGGTTAAT GACTTATGAG CAAAGCIGGI TTGGCCAGAC AGIATACCCA ANCITITATA TAATATCCAG ANGGCTATCA
CACTIGIG

SEO ID NO:1788: (Length of Sequence = 391 Nucleotides)

 TTCAGTGCAG AAGTCAGTCC AGGTGGGTTC AGGCCCATGC CACCTTCTCT GGCCTGCACA GTCCCACCCC AGGCAAGGGG
TTCTTTCCAG AAAGGCTAAA TGCTCTGTCC TAANCCTNGG AAGTGTCCCT TTCAACTAAA CCCCTGGCCT T

SEO ID NO:1789: (Length of Sequence = 312 Nucleotides)

CAGGITGAAG TGAGCCIGIG TGGGAAATGA GICTAGTGIC AGGAGGCCIG GCTGCTATAA TGATATTTAT CICACAGTIT
ATATTICATT CATITATATI ATTITITIAA AAGGITICIT TATCAGCTAC TAAACATCIC AGCAATTIGG TGIGCATAGC
TCTAGATTAA GCAACAAAGA ATTGIACIGA TAACAAACCA CAGGGGAAAT GGTGGITAGT AAGAGICAGC CITATAAAAT
TTACATCCAC ACTGITICAC AGCAAGATIG CTCTCTCCAA AACGTAGCCA TCAAAAACCAG CAAACAAACC CT

SEO ID NO:1790: (Length of Sequence = 281 Nucleotides)

TGTTTCCYTC ATTAGCTGTA GACTATCCCC TCTCCTCCCA CCACAVIGIT TCTWTGATGA KTTACAAACA GAAAGGAAAT CACATTTTCA TACTAAAAAC AAAATGWTCA GAGCCTTGAT TTYTCCACTA GAWACTACAC GTACAGTTAA GAGTCCACAT GCAACACCTT AAWTCACAGA CTGAGACCTC ACATTYTGAC CTGGAGNITC CTCCCCTTCC CCAGCCTTGG GCTAGCTTTG GCCTAGGCTC AKGTAATACT GACACCCACA GGCGCTGCTC T

SEO ID NO:1791: (Length of Sequence = 261 Nucleotides)

AGGCAAAGCA GAAAGGTGTG TTTGCCAGAC CAGCATGGGC AGCTCAGAGG GAGCAAAGCA TCCACCAGAA GAGGCTCTCC
ATTTTTTTGT AGGGCCTGAC AGTTGAGATT TGAGGCTGAG TTAACAWTGG GACCACTGAA CTTTTTTCCA ATGGAAAAYT
CACGGCCCAG TCCCACAGGA ACTTTGCGGC ATACCAAACA ACAWTGAGGA AGGAAGGGCC GGGTGGCTCT ACCAAACAKT
TCAGGTCCAC TGGGTGAWTG A

SEQ ID NO:1792: (Length of Sequence = 324 Nucleotides)

CICCATCITI ATCGCIGIA TAAACATCIC TGGICIGIAC ATACATITCA TACATCGIAG GGIGGGAAGC GAGGGCCAAA
GGGAGGCCCA GCAGCACAAC AGCICACCG CITTCCCIAC AGCCCIACCC GCICIGIGCA AACCAAGGCC AACAGCICCT
GCIGCCICTI CCICCCIGGA AAAGICACIG TIAIGGGGAG GGGCCCAGGG GITGAAGGAT TAGAAGGAGA TAGAGGGCTI
GGIGGGGAGG CCACAINIAA GICCIAGATI CAAACACIGA AGCGAAACAG GCAACTGGCA CAAGCAGCAA GCTTAGGCAT
GGGC

SEO ID NO:1793: (Length of Sequence = 386 Nucleotides)

ACTOTTOGGE ACCCAAAGAT GTCAGGTCCC CATACTCTGA GGAATCAGGA CACAGCCCAG TGCCTGACAC CACAGAGTGA
GGCAGCCCTT CGGGTGAGGG CCTGGGCCTC GAGGGATGGC AGCCACCACT GCCTAGGCAA ACGCACCTGG GGCTGAACTT
GGCGCCCGGC ACTITNAGGA CGCCAGCACC AGTGGGCCACT CGGAAGTGCC AGTTCTGGCC CAAATTTGGT GACCTGGTC
AGAAGGACCT TTCAGAATGA NTTGTTCCCG TCAGCAGATA CCGTCAAGAC ACGGCTGGCT CTGAGAGGGG CTGGGTGCCC
GTTTTGCCTG TATTCTCCTG GGGGCCAGCA CGTCTCAGAG GGTGTCCCTG TGGGTCCCCG GGGTCA

SEO ID NO:1794: (Length of Sequence = 308 Nucleotides)

GGATGCTCTT TAAAACATGC AAATTGGGCC GGGCACAGTG GCTCATGCCT GTAATCCCAG CACTTTGGGA GGCCGAAGTG
GGTGGGTCAC CTGAGGTCAG GAGTTCAAGA CCAGCCTGGC CAGCATGGTG AAACCTCATC TCTGCTGAAA ATACAAAAAT
TGGCCAGGCG TGGTGGCATG TGCCTGTAAT TCCAGCTACT CGGGAGGTTG AGGCGGGAGA GTTGTTTGAA CCCCGGAGGTT
GGAGGTTGCA GTGAGCCGAG ATTGCACCAT TGCACTCCAG CCTGGGGTGA CAGAGCCAGA CTCTGTGTT

SEO ID NO:1795: (Length of Sequence = 418 Nucleotides)

GAAACGCIAA GGITTIGACA GCGITACAGI GAATICTCCG GCTGIAGAGA TTGGAGGAAG TCGGGAGAAA TTCGTCTCTA
AGITGIAAGG TGGAACAGCA TTCATTITCT TACTGCCAAT GGAGGITTIT CATGAATITA CTAACTCAGI AAAAAGATTC
GGCTTTTTTT TTTTAATCTT AAAGGATCAC GCTTTAAACC TCTGIAACAA AGTAATTATT TGTACCACTC TCTACCCCAC
CCTCCAACAA AATAACCIAT CGGNTCTCAG AAAATAATAA CCCTTTGCCT GCCTTTGAAA TAGTTATCCT TTTTAGTATG
ACAGTGTCA AAAATTCTTT TCTTAGACTT GTAGCAGAAC ATAGCTATGA TGATCTGAAT TTTTCTCTTT CAGCTTGTTC
TAAGACGAGG GGGACTCC

SEO ID NO:1796: (Length of Sequence = 416 Nucleotides)

CTITATIACA TATECAACCT TECCATECCT GCCAETTAAC TCCCCTCCCG CCAATGITAT CCTCATGATA TCAECTCCCT
CTTGGGGCCA CTGAGCTGCC CCCCTTTCCT TCTGGGCTGG AGTAGTGGTG CCCCTCAAGC AGGCAATGGG CAGGGGGAGA
TCCACAATTA ATCGTCGCAG TTCTCTTAAA AGTATTAACA CTTAAATAAG CACTCTTGGG GAGTTGCAAA GGATATTCAG
GATGGGATGC AGTGGGAGGC TACCCCTCAT CCAAGGTACA GGCTGGAATG AGCTACAGCT GGGTCTATCG TGGGCCTCAG
AAGGTGAAGA GGGACCCTAT TCTGGGGCTT AGTGTGGGTG GGGCATATCC TCCCCAAACT TGTTCTGTGG GCGATGTTCT
TCACATCTAG GAGAGC

SEQ ID NO:1797: (Length of Sequence = 298 Nucleotides)

AGGAGGGAAA CCAGAATCAA ACTACTACTT CTAGATGAAC ACAGGCTCTT GAGAGTCCCC AAGAGAGGAG GCTGTTGATC CAATCCTGAC TCAGACTACC TACCTGGCTT CCTGGCCCTA GGAGGTAATA ATGATAGINT CAGGGGGTCC ATGTAGCAAT CCTAGGGTGA GAGCAAGCAA AGAGGATAGG ATGAAGGGAA GGCAGGCAAA GAATGTGCTC CTAGTAAGAA GCAACTCINT TCCACTCACT TCCTTTTGCT CINTGGCAGG CAAGTCAACT GGGTTCTC

SEO ID NO:1798: (Length of Sequence = 245 Nucleotides)

CTGGTCCATT TTTACAACAN ATACATCCAA AACACTATAT AATANNITIT TITACAACAT TTCCAAATGA GAAGATTGCT
TTTNCCCCCA CTACTGCTAT TCACACACAG TACTTCCACG GCACAATACA TTAGGAGATC TAAAANTGCT CACCCTGTAC
TCTAGGCTGC TTAGGAAATG TGAAAACTAG NAACATTTAT AATGGCATTA GCTCCTTTCA ATACAAGGCA ACATTTTAGN
AACCT

SEO ID NO:1799: (Length of Sequence = 312 Nucleotides)

GAAATGITAG GCIAGITAGA AGGACACGC AATAGCCITG AGATTYTCAA CCAGGGTAGT GTATTAGAWG TAAAAAGGAG AGGAAAGAIT TGAGAGITAT CICAGAAACA GAACCATCTA ATTITITTGG ACTGATTIGA CIGCICITIC ACTCATTITT TTATTCACTC AACAACTATT TTIGAKIGAIT TIGGATGGGT CAGACATTGC GCIAAGTGAA AAATAGGAAG GTAAGAAAAA GAAGACTCTG AAGATGAATT CCCTCCCCAA AACTGAGCTA CTAGCTATTA CTCAGTGGGG CTGAAGTGAC AC

SEO ID NO:1800: (Length of Sequence = 309 Nucleotides)

GGCATGIGAC ACTAGGCCAC AAGCGATAAG CACAGGCACC TGACTITITAA GITTITGITT GITTGITGIT TCCCAAAGIG
CTGATAACAA TAACAACAAC AATAGGATTC CAACCAGGNG CCTCAAGIGA CAGCCAGGNA GAGACCIGAA GGITGGGGCC
ACCACAATGC CAAATCGITT CTAAAGGAAG CIGAAAAATG GGACTGICIT TTGCCCACTT CGITGIGITA AAAGGGGACA
TTTGINCAAA CINCCCAACC GAGITCTAGA AGNICCTGAC AAGGAGGCAG CATCCAGCCT TGACCAGGC

THE RESERVE TO

SEO ID NO:1801: (Length of Sequence = 166 Nucleotides)

CAAAANITAC TCTGCAAAAT TAATATATGA TITACCIGCI GITNICATAA GATITCCAAA TAGACAAACT CGGTATGCIT NGGATTIGCI TTACATICTA AGIGGATTIG GAGGITCAGG CAGGCGCCAA GGAGINAGCC GAAGTITCAT CANGCGGAGA TGTTGG

SEQ ID NO:1802: (Length of Sequence = 281 Mucleotides)

GGTGGATGTC TTTGGGCGCA GGATGGAGCC CAGACCCAGT GGTTACAGTG TGGAGCTCTC TCCCTGTCCC CTGACTCTGG
CCAAGGAAGT GAATGCAAAG CAGCAGGGAG GAGGCAGGGT GGGGACGGCC CTCTGAGCTC TCCGCGATGG CTGGCGTGAG
GTGCCTCTAA GACTTCTNGG CAGCCCTGCC TTCCCTACTC AGTCTTCCCG ATCTTNTTGC CACCTTTCTG TGTGGGCCAG
NCTCCCGCCA GGTACTCAGA GGCCGCTCAG AGGGCAGGGT T

SEO ID NO:1803: (Length of Sequence = 429 Nucleotides)

TTCACAGITA TAGITEGEGA CATTAACAAC CCITTCTCAA TAATTGATAG ACTACTAAAT AAAAAACCAT GAAGGATATA
CAAGAACTGT ACAACACTGG CCGGGTGTGG TENCTCATGC CTGTAATCCC AGCACTTTGG GAGGCTGAGG CGGGTGGNTC
ACTTGAGGTC AGGAGTTCGA GACCAGCCTA GCCAACATGG CGAAACCACA TCTCTACTAA AAATACAAAA AAATTAGGCT
GGCTGTGGTT GGCTTAATGC CTGTAATCCC AGCACTTTGG GAGGCCAAGG TGGGCATATC ACCTGAGGTC AGGAGTTTGA
GACCAGCCTG AAAAACATGG TGGAAACCCA TCTCTACTAA AAATACAAAA ATTAGCTGGG TGTNGTGCGT CTGAAAAAAT
TAGGTAAACT CCGTCTCAAA AAATAATAA

SEO ID NO:1804: (Length of Sequence = 278 Nucleotides)

GACCIGAAGC TCAAAGTCTC TCTCCTTACA CAACCAGCGN CAACAGGGCC AAGCTACTGG CTAAGAACAG ACAAACTTTC
CTGCTTCAGA CCACAAAGCT GACCCGINIT GCCAGACGCA TGTGCAGGGN CCTNTTACAG CCAAGGAGGG CCGCCCGACG
GNCTTATGCT CCTATCAATG CCAATGNCAT CAAAGCAGAG TGCTCCATTC GNCTTCCTAA GGNCGNCAAG ACTCCATTNA
AGATTCACCC TCCTGGTGCG GCTGNCCCTG GGAACTAT

SEO ID NO:1805: (Length of Sequence = 349 Nucleotides)

GCATCCATGG CGGAGGCCG CAGCACGACG GGCGGCCAGG GCCGGCCTCC GCAGGTCGTA ATCTGAAGGA GTGGCTGAGG
GAGCAATTTT NIGATCATCC GCTGGAGCAC TGTGAGGACA CGAGGCTCCA TGATGCAGCT TACGTCGGGG ACCTCCAGAC
CCTCAGGAGC CTATTGCAAG AGGAGAGCTA CCGGAGCCGC ATCAACGAGA AGTCTGTCTG GTGCTGTGGC TGGCTCCCCT
GCACACCGTT NCGAATCGCG GCCACTGCAG GCCATGGGAG CTGTNTGGAC TTCCTCATCC GGAAGGGGGC CGAGGTGGAT
CTNGTGGACG TAAAAGGACA GACGGCCCT

SEO ID NO:1806: (Length of Sequence = 403 Nucleotides)

GIGCAGIGIG GCCAGATCIT TICTAGIAAA ATGIGIGITA CTGATGGGCA GACAGCICIC ATTCAAGCAG TGACAGATGI
AAGCNCITCC CATTITIGIG GCCCCATIGI ATTCAGCGIG TGGCTICCAA GITGCCTGGG ATCATCTCCA CCCAGACTAA
GGAAGAGGAA AGAGCTTGGA CAACTGCACT TGGCTGGTIT TNATGGATCA GGCAAGGAAT TGGCTCCAAC ACATTAGCTC
ACATTCCATT GGITAGAACT GGGITTCTCA ACTATTAGTA CAGGGTGAGT GTAGGGTTTT GGCACCATGG GCATTTGAGC
TGGCCCAAAGG CTAATCAGAG TTAGAACAAA GCCACAAAGC CTGTGAATGG TGTTTATTGT TGTGAGGAGC TGTCTTGTGC
ATT

SEQ ID NO:1807: (Length of Sequence = 426 Nucleotides)

GICCTCAGCT TCACTCTGCC ACCACTGTGA GCACCGGGAA ACCTACCAGA AGTTGCTGGA GGACATCGCT GTCCTGCACC
GCCTGGCTGC CCGCCTCTCC AGCCGAGCTG AGGTGGTAGG CGCCGTCCGC CAGGAAAAGC GCATGTCGAA AGCAACGGAA
GTGATGATGC AGTATGTGGA GAATCTAAAG AGGACGTATG AGAAGGACCA TGCGGAGTCA TGGAGTTTAA AAAGCTTGCA
AATCAGAATT CAAGCCGCAG CTGTGGCCCC TCTGATGGG TCCCTCGCAC GGCACGGTCC ATGTCCCTCA CGCTGGGAAA
GAATATGCCT CGCCGGAGGG TCAGCGTTGC TGTGGTTCCT AAGTTTAATG CCCTGAATCT GCCTGGGCAA ACTNCCAGCT
CATCATCCAT TCCTCCTTAC CAGCTT

SEO ID NO:1808: (Length of Sequence = 431 Nucleotides)

GGTACTTTC CATTIAGATT CAAATGAGC TAAAATTAAG AGTTTTATGA GCTGTTAAGA ATGAGGTAGT TTCTCCTAGG
ACCCCCAAA GACAGTGCAA GTAATGACCG TTTGGATCTC ATTCGTCGAT CTTTGATAGT ATGINCTGGA GTCTACTCCC
CAGGAGCCAG GACAGGCGTG AAGATGGAGT CCTTGTCGCA GCTGGAGCCT TGCCTAGCTG GTGATCACAC AGCCTGGNCT
GTACCTGCAC CCCACTGGAT GGTGGTACAT GGTGGCAGGG ACAGGACCAC ACCCAGTTAA GGCCAGACCA GGCTGAGTGT
GACCCCTGAG GTAAACACTT CACTAAGCTG TGTCTTGTTC ATGCCCCCTG CTCAGTGAAA GGTGAGTCCC GAGACCAGTT
GGGTACCTCT CTTATGCGAA CCAGAGACAT T

SEO ID NO:1809: (Length of Sequence = 401 Nucleotides)

CETGAGGCCT TGAGCACAAG TGCAAGCGGG ACATCCTGCT CGGCCGGCTC CGGAGCTCGG AGGACCAGAC CTGGAAGCGG
ATCCGGCCCC GGCCCACTAA GACCAGCTTC GTGGGCTCCT ACTACCTGTG CAAAGGAGGA GATCGACGTG TGGACCGAGG
AGCGGAAGGG CACCCTCAAC CGCGACCTGC TCTTCGACCC GCTGGGGGGT GTTAAGCGCG GCAGCTCACC ATCGCCAAGC
TCCTGAAGGA GCACCAGGGC ATCTTCACCT TCCTCTGCGA GATCTGCTTT GACAGTAAAC CCCGGATCAT CAGCAAAGGC
ACCAAGGACT CTCCGTCTGT NTGCTTCAAC CTGGGCTGCC AAGAACAGCT TNTTACAACA ACAAGTGCCT GGTGCACATC

SEO ID NO:1810: (Length of Sequence = 233 Nucleotides)

AAGTGCTATA TTCATTGTAT TATAGAGAAG GTTGGGGAGC ACAGAAGAGG ATCAACCCAG CTTTAGAAGG ATTAGAGAAA GCTTCCAGAG GGGTGGACAT TTGAGCTAGC AAGAAAGCAC AAGGGAAAAG GCATTTAGAC AGAGGAGACA ATTTGTCCTG ACCCAGAAGC ATTGGGGTAT GCTATGCATG GATAGNCAAA GAATTTTTGC AAAAGGGGGG CCAGCAAGGC ATT

SEO ID NO:1811: (Length of Sequence = 423 Nucleotides)

CAAAGAAAGA GITGAACTAT GTACATTGAA AAAAGGAAAG ACATTITTIC ATACCAACCT TICCCIAGIT CGCAGITICI
GAATAGIAGA AACAAAACAC ATTITIAAAT CITICIATCA ATTIAATTTA GGACGAAGTA ACACAACTIT TATAATTAAC
CACTGAAGTT GICTITAAGG ACAAAACTTA AATTITAAAA TGGGTGTTAC CATATTINAT GAGTGGACTG ACTCCAAGGT
TGCCTTGCTC CAAGNNTGGG CATCGTGACA TTGCCGTGAT GCCCAGAAGA AAGTTAATGG CAATGATGTC CAGTCAGAGG
GCAGACATGC TACACATCAC AATGATGAGA GCTGCGGGAT TCTGCCCTCT TCAACTTCCA AGTAGNAAAT TATTATTTTC
CATTCAAACT AACTGGGAGT GAG

SEO ID NO:1812: (Length of Sequence = 394 Nucleotides)

AGAGACTGAT ACCACTGGAG TGGCTGGCTT TTAATTCCCC TGGGCCAGAC CTGCAGCCTT GCCTTAATCC TTAA

SEO ID NO:1813: (Length of Sequence = 344 Nucleotides)

SEO ID NO:1814: (Length of Sequence = 442 Nucleotides)

GACACAGCAG GCCCCTGCCC CTGAAGGAGA CTGCATTGGA ATTTTTGCCA GGTGGCCCTG ACACATAGGA ATGCCCAACT
ACTGTGACTA CCCTCTGAGA TAAAAAGCTG TCCTACTGAT TTTAGAAGGC CAAAATTAGA GGTCATTTTG GAGGTCATGC
CAGTGGACAT ATAACAGTTT GAAATGCTTG TTCCCCGGTG CCGTAAAGAA ATAGTACTTG AACTTAAATT TATTCAGCAA
GGCCATTTTT ATTTTCTGCA GAAAGGGTAC ACTTGGCAGC AGTTTTNCCA CGAGAGTACC CCGAACAAAG GAGACAGGGT
CATTTATAAC CTGACGCGTC CACCCTTCTG CTGTGTCCGG TTTCCATTGG CTGGAACAGG ACCTCACATT CTGTATTTGT
CCCGATTGGC TAGCAACTTA GGACTTATTA AAAGAGGCAA AG

SEO ID NO:1815: (Length of Sequence = 299 Nucleotides)

GCAGAGAATC CCTTGAACCT GGNAGGCGGA GGTINCAGTG AGCCGAGATC ACGCCACTGG ACTCCAGCCT GGACAACAAG
AAGGAAACTC CATCTCAAAA AAAATTGAAA AAAAATTCAN GANATACAGA ATGCAAAANG GGACCAAAAA AGTACCAAAA
ATTTCAAAAAT TTTGTTAAAC TGTACCAAAT CTGGNTACGA AGCGTTATTT TTGCCCACAG GGCACTTCCC TGGAAAGNCG
TTACAATAGC TNAGGCTTCC TCTTCAGATA GANTTAGAGT GGCAGTAGGA TAGGCTCTT

SEO ID NO:1816: (Length of Sequence = 286 Nucleotides)

SEO ID NO:1817: (Length of Sequence = 320 Nucleotides)

GAAAGGAAGG CCAGGGTGGG AGGAAGGATC AGCTAAATCT GAGGGAAGAA GAAGGAAAGG AGAGGACTA TTGCATAGCA
GATGCAAATG AAGGGACTGT CTTATTATAC AGTTTTATCA TCTGTTAATA CTCATAATCT TGTTTCTTTT TCAACTTTTA
TATAATTTTA TCTTTACATT AGTTAAATCA AAAATCTTAA AACACATTTT AAACGTGGTC ATAGGTTACT TTTATATATT
ATTGAATTTA TAATAAACAT GTTTCTTTNC TGGAAACTGG GATGGNACCN CGATGGTGTT TCTTGAATAT AAGAGTGTCC

SEO ID NO:1818: (Length of Sequence = 356 Nucleotides)

CCCAGGAGGC TGAGGCAGGA GAATCGCCTG AACCCGGGAG GCAGAGGTTG CAGTGAGCCG GGATTGTGCC ACTGCACTCC AGCCTGGTGA CAGAGCGAGA GTTCATCCAG ACACACACAT ATATATATAA TINCCAAACA GGCTTTACTA AACCCCCTGA GGTCTCATGA CACAGTAGAA AATCATGATT TAGTAGAAAG AGCATGGTCG TAGGAATCCA GTAGATCAGT AGACCTCTTAT TAGAGTCCCA AATCTGCCAC TTTCAATCTG TATGGCCTCA GGCAAGTTAC TTAANCTTTC TGTCTCTGG TTTTTTTTAT AAAATGGGGG ATAATAATAG TAACTTCTTC ATAGGG

SEO ID NO:1819: (Length of Sequence = 328 Nucleotides)

CCACTCCTGT AACCTGCTGG ATGACTCTGC ACTGCCCTTC TTCATCCTCA CCAGTGTCCT GGGTATCCTA GCTAGCAGCA CTGTCCTCTT CATGCTTTTN AGACCTCTCT TCCGCTGGCA GCTCTGCCCT GGCTGGCCTG TCCTGGCACA GCTGGCTGTG GGCAGTGCCC TCTTCAGCAT TGTGGTGCCC GTTTTGGCCC CAGGGCTAGG TAGCACTCGC AGCTCTGCCC TGTGTAGCCT GGGCTACTGT GTCTGGTATG GCTCAGCCTT TGNCCAGGCT TTGCTGCTAA GGGTGCCATG CCTCCCTGGG NCACAGACTG GGTGCAGG

SEQ ID NO:1820: (Length of Sequence = 359 Nucleotides)

CCACCATECT CIECACTOSC NOTESTACCA SECCOSOSAC CICATECTOA TGASCOACTI GCAGGACAAC ATTCASCATE CAGACCOSCC AGIGCAGATC CITTACAACC GCACCATEGT GCAGCTGGCC ATCIGIGCCT TCOGCCAAGG CCIGACCAAG GACGCACACA ACGCCCTGCT GGACATCCAG TCGAGTGGCC GAGCCAAGGA GCTTTINGGC CAGGGCCTGC TGCTGCGCAG CTTGCAGGAG CGCAACCAG ACGCACATC AACCINGAGC TGCTTGGAGT TTGTTTTANC TGGTGTCGC CATGTTCCT

SEO ID NO:1821: (Length of Sequence = 208 Nucleotides)

CCTGGGTCTG TGACCCAGAG TTCCAACACA AAGACACTTT GTACTGGAAC GCTGGAGCCA TTCCAACATG AACAGCAAGA ATAGAACCTG TGCTGGCTGG TCTAAGATCA AACCTCGNGA TGGTGGTTTG AAGINCTTCT TCAAAGAAAG CTTGAAAATG AAATCTCAGT TAGGCAAGNC AGATAAAAGC AGAGTTATTC TGGTGGCG

SEO ID NO:1822: (Length of Sequence = 314 Nucleotides)

GGATGINITG AGCCAGAGIT TAAGCCIGAC ACACAGGCTT TGGICCTCAC TGAGCTGTCT CCAAGACTGG AACTACTTAG
TGACTCGGCA AATTITCTGC CCCCCACCCC TCATCAAAGC TGCTAGTTCA GATGITGACA GTGTTTTCAT GAATGITGGA
ATCTTACTAG TCCAGACTTA CITAGGATGT TGITGGGGAA GGCACTTGGG ATTITCTGTG TCTTGCATTC ACAGAGGGAG
GCCATTTCAG ATTCAAGAGC ATTKGATTAG GGGATCGTGA GGCAGGGATG CTACTGCGKA TTTCTCTCTT CAGG

SEO ID NO:1823: (Length of Sequence = 344 Nucleotides)

AACAATTTIG TCTTTACTAC ATCTTAAAGA ATTAGAACTT GGGTTGGTGT AAGTGACTTA CTTCCAGGGN ATCATGCTCT
ATTTCTACCA GCAGGTCATA CCCNAATGTC ACACTATCTA TTGTTAACCA TGAATGNTAT TCAGATCTAT TACTTTTCGT
GAAAAGTGGA ACATGTTACT TCCAACCATG GCCTGTCACC GTGAGTGTGA TCANCTTTNT CCAAAACCAC ATGGGTCGCA
GGAGCTAAGG GGTGGTACCC MAATGTTAGG GACAGTGTTA GGGAAGGGCA AGGGAAAAGA AGTGACTNGA TGTCTTATGA
GRAACCCGTA AATGGCTTAA AAAA

SEO ID NO:1824: (Length of Sequence = 340 Nucleotides)

GTGAGTGGCA GGTATCATGA ACCACATTGT GGACCTGGAG TTGCTAGGAC CTTTTCTGCC ATTACACAGA AAAATCCTCC CTGAGAACAC AGCCATTNGA GGNCACATGG CAGAGGAAGA TAAGACAATA AACAGAGNCA CATAATTATG GCCAGCGTGG GGGCTNACGG CTGTAATCCC AAAACTTTNG GAGGCCGAGG TGGGCAGATC ACCTAAGGTC AGGAGTTCGA GGCCAMCCTG GGCAACATGG TGAAACCCGT CTCTACTAAA AATACAAAAA TTAGCCSGGC GTGGTGGCAC GGGCCTGTAG TCCTAGCTAC TCAGAGGGTT AGGCAGGAGA

5EO ID NO:1825: (Length of Sequence = 357 Decleotides)

AATTIGGITG TGGCCAAATT CTCAGTCCAA TCACCCTGGC CCAGGGCCTG GCGTGGGAGG ATGTGGCAGG CTCTGTCTCC
TTCTGGGGTT CCTGGTCTGG AGGAGTCTCC CCAACAGCGC CAAAGCTGGC TGTTTTCCGC CCAAAGCCCC AGAACTTTGA

ATGAGAGGCA AATCTACCCT GAATGCACCT CCCTCCTAGG CTGGGTGAGG TCACGCAGAC ACAGAAGGGC AGGACAGAAC TCCCCCATCIT CTGGGGGCCA ATTCGTCTGG ACACTGTGCG GTCANCITCC TTTTTAAAGT GCCAGTATCG GTGGGGCAGG AAGGGACTCT CAGGGCTGAG CAGAGCCTTC TTCAGCG

SEO ID NO:1826: (Length of Sequence = 207 Nucleotides)

COGGCCCCTT CAGTCCCCAG CCCCTGCCCC AACTCCGACT CCTGCACCCA GCCCGGCTTC AGCCCCGATT CCGACTCCCA CCCCGGCACC AGCCCCTGCC CCAGCTGCAG CCCCAGCCGG CAGCACAGGG ACTGGGGGGC CCGGGGTAGG AAGTGGGGGG GCCGGGAGCG GGGGGGATCC GGCTCGACCT GGCCTTAGCC AGCAGCA

SEO ID NO:1827: (Length of Sequence = 309 Nucleotides)

SEO ID NO:1828: (Length of Sequence = 382 Mucleotides)

ATCTCTGACC ACCCCTCCT CCCCATCCCA CCCTTTGGTA ACTCCCCGC CCAGGNCACT GCCCAGATAT ATTCTTCTCC
TTGGGCAAGA AGTTCTGTGC ATGCAGGTCA AATCTGAAAG GGNCATTTCT TTCTTTAATG AGTGTCAGGG ATGGGGGGATG
TGGCTGATGA TATAAGGGGC CCTCCCAATCA GACTTTCTAA TCTAACTGAA AAGNTAATTA CAATGTTGAT GCTAAAAAAG
AAGGTTCTGG CAAAATAGAA CTTCTGAAGC ATCATAAATC AGATGACTAA TATTTGTGAT CCCCNTTTAA ATTTTCATGT
GAAGAAGAAT AGGGGATGTA ACTGAAGRAA TGNACTAAAA GTTCTTCTAT GTATTGATAA CC

SEQ ID NO:1829: (Length of Sequence = 361 Nucleotides)

GGCGCGCCT CTGGAGCTGG ATGTCCAGGC TGCGGGCGCT GCTGGGCCTC GGGCTGCTGG TTGCGGGCTC GCGCCTGCCG
CGGATCAAAA GCCAGACCAT CGCCTGTTGC TNGGGACCCA CCTGGTGGG ACCNCAGCGG CTGAACTCGG GTGGCCGCTG
GGACTCAAAG GTCATGGCGA GCACGGTGGT GAAGTACCTN AGCCAGGAGG AGGCCCAGGC CGTGGACCAG GAGCTATTTA
ACGAATACCA GTTCAGCGTG GACCAACTTA TGGAACTKGC CGGGCTGAGC TTTGCTACAG CCATCGCCAA GGCATATCCC
CCCACGTCCA TGTCCAGGAG CCCCCCTACT GTCCTGGTCA T

SEO ID NO:1830: (Length of Sequence = 180 Nucleotides)

AAGAACGITG GCTGCCTGCA GGAGGCGCTG CAGCTGGCCA CTTCCTTCCN CCANCTGCCN CTCGGGGATG TAAAGAACTG
AGTGGGGAAG GAGGAGGCTC CCACTGGATC CATCCGTCCA GCCAAGAGCT CTTCATCTGC TACAAGAACA TTTGAATCTT
GGGACCTTTA AAGAGCCCCT

SEO ID NO:1831: (Length of Sequence = 335 Nucleotides)

AGATCTTCTA TATTCCGACT ACTGATTCAA ATGCTAATCC TGGACGGGCA TGGTGGCTCA CACCTGTAAT CCCAGCACTT
TGGGAGGCTG AGGCTGGTGG NICGCCTGAG GTCCGGAGTT TGAGATCAGC CTGGCCAACA TGGTGAAACC CTGTCTCTAC
TAAAAAATACA AAAATTTGCT GGGCGTGGTG ACATGCGCCT GLAATCCCAG CTACTCGGGA GGCTGAGGCA GGACAATCAC
TTGAACCCGG GAGGCAGAGG TTGCAGTGAG TTATTCCACC ATTCCACTCC ACCTTGGGTG ACAAGAGAAATACC
CCCCACCAAA AAGCG

SEO ID NO:1832: (Length of Sequence = 337 Nucleotides)

GIATTIGGAG AIGGGACCIT IGGAAAIGCI ITGATTAGGA AGAAGGAGCI ITCAIGAACG GGATTAGIGC CCITAIAAAA
GAGGACGCAG AGAGCICICI CACACCITCC ACIGICIGAG GNCACAGGGA GAAGGCCCIG ICIAIGAACC AGGNAAIGAI
CCCCAACCAG AACACCITGA ICIIGGACIN CCCAGAIGCI CCANAICINI GAGAAGCAAA ITICIGIGCI ITIAIAAGCIA
ICCCAAIGIAI GGAAITIING IACAGCAGCC CCAACAGACI AAGNIAITAA TAAAAIAAAG AIGIAAGAIC ICIGIIGAAA
AIGCACAAAI AATAICI

SEO ID NO:1833: (Length of Sequence = 244 Nucleotides)

TCTCTCATTG TAAGCACAAA TTGTTCCGTG TCTGGTTATT AAAATCGCTT TGGGTCTATA ACAGCCACTC TTGTCCCCCCC
TTTTAATAGA AAATTGTCAT TCTAGCCTGG ATTTCTCCCCC ACTGGAGGTG GAGGGTGGGA AGAGAAGGGA GTCAGCTCTG
ACAGCTTACA AACTGGGAAG TTCTGTGCAT CTCCAGGGAT TCCAGAGTTG AAGATCTGGT TGTTGGAAGC TGGGCGCCCCA
GTGC

SEQ ID NO:1834: (Length of Sequence = 322 Nucleotides)

TCCTGTACTA CACCITIGCC AACATGGCCA TGITGAACCA CCTGCGCAGG CCCCCGTCCT GCAGTACCTG TACTACCTGG CCCAGATCGG CATCGCCATG TCTCCCCTCA GCAACAACAG CCTCTTCCTC AGCTATCACC GGAATCCGCT ACCGGAGTAC CTGTCCCGCG GCCTCATGGT CTCCCTGTCC ACTGATGATC CCTTGCAGTT CCACTTNACC AAGGAGCCGC TGATGGAGGA GTACAGCATT GCCACCCAGG TGTGGAAGCT TCAGCTCCTG CGATATGTGT GAGCTGGCCC GCAACAGNGT GCTCATGAGC GG

SEO ID_NO:1835; (Length of Sequence = 178 Nucleotides)

ATGAAAGCAC AAAAGAAGTC TATCAAAAATT ACAAAAACTT AAAACCGAGT AAACAAAACT TCAGAAAGAA TGAAAACAAT TGGAAAATAA CITCAAGAAA AAAATGTAAA ATGGAAACAA TACAAGANCA ATTTGTGCCC TCTGAAAAAC AGAGGTTAAA GTCAGAATTT TTTTGTNC

SEO ID NO:1836: (Length of Sequence = 377 Nucleotides)

CGCCIGENAC CACACCCAGC TAAITITIGI ACTGITAGCA GAAACAGGGI TICATCACGI TGGCCAGGCI GGICTCGAAC
TCCTGACCIC AAGICACCCA CCIGCCTIGG CCTCCCAAAG TGCTGGGAIT ACAGGCAIGA GCCACTGTGC CCGGCCTITA
TGCTGAGIIT TAAGGGCIGI ATGAGACACC AGGIGGTGGG AGGGAGCTGI TITGAGAGCA GGGAATTTAG GATACTTAGG
AAATTAGAAA ATTAGAGAAG TCATAGGAIC TTGGAACTAA GGGAGAACCT TAGAGTCCTG TGGAGCAGAA CCCAGCATTT
GTATGTGGAG GAAACGGAGG GCCCAGAGAA GITGTGACTT ATNCCGGGGI CAATCIT

SEO ID NO:1837: (Length of Sequence = 388 Nucleotides)

GGAGAGACA AACCCTCTTA CIGGCCITGG GCCCATCCCT CTTTCTCCCA CACTGCTACT TTTGAGTTAT CTCATTTTGC
TCCCAATAGT CAGCCTTGAC TTTTCTGGGC TTACCTGGGC ATCAGGGACC CATGTTGCAC ATTCAGTTGT CCCGATTATG
TCTGCCTTAG AGCGTCTCCT AGGGCAGCCA GTCTGGAACA GTCAGTCACC TAGGGTCCTG GAGCTCCTGC AGTCTGCCAC
TCGCTNCTTC TGCCTGATAA CAAATACTAT TCCTTTTTATC CTTGCAACTC GACCCAGAAA GAGGTGGCTG TCAATGTCCA
AGGCCCCTGG GAAACGAAGG ACTGGAAATN TGAAACCACT GGGCACAGGG GGAATGGGTG GGTCTGAG

SEC 1D NO:1838: (1-ngt) of Sequence = 369 Nucleoriums)

TCTCTTTATG CCAACAATTA ACTGGGAGCT AGGTTAAATT ATTTGGCTAG ATAAAACTAC CAGCTAGATG GATTTATTTG GTGCCCTCAT ACAGAATGCT GTAGAAAATG TAAAGAAGAG AAAGCTCCTT CCAGCTAGAA GCACATGGGA CTGCTTCTAG GATGGAAACA AGTCCTGCTA TTTTCACAAT CCCTAAGNGT TCTCCAGGCC TCTGGAGAAC AAAGTAAAGT TGTAAGATCC CCAAAGACAC GGAAAATCCT GGACGAACAG ATTAGAAATA ACTACAAAAA ACAAGTTTTT TACTTTCGAA AAGGGTACTG CACTGAAACC AAGTTGGACT TTTGGTCCAC CCCCAGGGCC CTCTTCAGG

SEQ ID NO:1839: (Length of Sequence = 359 Nucleotides)

CNNGTAGGGA AGAGGACTIT ATTGGGATGI TAGTAGGGAA ACATGAGAGG GTGAATTCCA GGGAATAGAC ACTAGGACCA AGGTGGGGGT CACCTTAAAG AGCCATAAAT AAACTTAAAA AATTAAGGTG AGGAGGTGCC ACGTGGGGAG GCTGCTGGGA CTATCTGGGA ATTCTTAGGG ATGGAATTIT GGAATTGGAA AGGGGAAATA AGAATTTCCA GCCGTNTCAC AAAAGGGTGT GAAATGATCA CTTCAAGACT CCCTGCTGCC CTAGGCTGGG AGTTGGGGTT CTGGGGCTCC AGGAAGAGG GAGGTCTGGG CTCGGCTTNA AGGGGTGAAG AGGGCCCGGT CAAGGTCGT

SEO ID NO:1840: (Length of Sequence = 360 Nucleotides)

CCAATGAGCC CAGCCTGACA CATATGGACT GCTCGACAGG TCCACTGTCC CACGAGCAGA AGCTGTCACA AAGCTTGGAA
AAGAGGGAGC AACACTTCCT GGAGGCCTGG CACCGGCTCG GAGCAGCCTG GGAGCATCCT GGGCCCCGAA TGTGCCTCCT
GCAAAANAGT ATTTINTCCC TACTTCAAAA AGGAGCCGGT GTACCAGCTG CCCTGCGGCC ACCTCCTGTG CCGNCCCTGC
CTGGGTNAGA AGCAACGGTC CCTGCCCATG ACGTGCACAG

SEQ ID NO:1841: (Length of Sequence = 332 Nucleotides)

GTGTGATTCC ATTTATATGA AATGTCCAGA ACAGGGAAAA CCTATTINAG ACAACAGAGA CACAAAGTCG ATCAGCAGTT
GCCAGGGGAG GAGGAAGACG GGAGGGGAAA TGATTGCTTC ACGGGTGAT GACAGAATGT TCCAGAACGT GACAGAGGTG
GTGCCTACAC AACTTTCTGG ATGTACTAAA TGCCGCTGAT TGTTCACTTT CAAGTGATTG ATTTTTAGGT TATTTGAATT
TCATCTCAAT TAAAAAACCC AAACACGCAA ACTGCTCCCG CCAGCTTCAG CCCCGAGGCA GACGGCGCAN CCGTGGGAGG
GATGCTGAGC CA

SEO ID NO:1842: (Length of Sequence = 246 Nucleotides)

GCTGGTCAAG GCAGAGTITA CTGAACTNIN AGTITCCTCC TGCACACACC GGGCATGACA CCTTCAAGTC TGNCCAGCAG
TGGGTCCAGA AAGTACCCTG TGTGCCTTGG ACGCAGAGGC TACAGTTCTN ACTGTGTGGC ATGGGAGCCT TCANAGTGCC
CTCGGGAGCT GCCCCTGGTC TTTGTCTGNA AAGGTGACTG GGAGGNTAGA AAAAGCAGCG GGCTGGCATT GTTTCGGGGG
TGGGGT

SEQ ID NO:1843: (Length of Sequence = 313 Nucleotides)

ATTTATTECA AACAAATTE AGETAAAAGA AGCTGACCCA GAACCCACGC CCGTCCAGGC TGGGGAAGTC TCTACTCGCC CCACACCAGG CCCCGAGCAC CGCGGGCCCG AAGCAGCCCC CAGAGGACAG ACGGGCCCTG CGCACTGAGG TAGCTGCATC TTAAGCCCCCC ATGAGTACAA CTGCCCAGGG CTGCCCAATT CCCAGAGGG AGGAGGAGAG AGAGGCAGGC AGGGGAGGC CCGGCTTCAG GTGGGGCACA CCCCANACCC TCAACAAACC TTCCAGCCTC TTCGGGCTGG GGCACTTCCT GCC

SEO ID NO:1844: (Length of Sequence = 274 Nucleotides)

CTTCGCTTCT NAAAACCAAA CTCCAGCCGC TGCCAGTCGG GACTTGGTCG CCCGNCGCTG CCAGAATGCT CCACTGCCAG GGTGCCAGGA GCCACTGGGA CAGGGTGAGG CTCCCAGACG CTCCTCGAGG TGCCCAGCTC TCCAGGGAGC TTCTGGNCCA AGGNCGTCTG AGGGATCTGC TCCTTAACCN CCCA SEO ID NO:1845: (Length of Sequence = 441 Nucleotides)

SEO ID NO:1846: (Length of Sequence = 255 Nucleotides)

ATGAATICAT TGTGTATTTA TTATTCACAG TTAATCACTA CCTACCAAAT GCTATCCGCA GAGTTAAAGG ATTAAGTACA
TAGGTCTTTA TTTAAACACT GATTTTTTTT TTTAAATATA TACACACAAA ACTTAGTTCA GCAAGGCTTC ATGATATACA
CCAATTCCAA AATAAAACAA TCAAATGGTC CNGGNGTAGA ATGCCAGATT CCTTTTATCA TCTGCGAGGA AAAGAGAAGC
AGGATGAGGA AGAGT

SEO ID NO:1847: (Length of Sequence = 3. :leotides)

TGCACAGGGA GAGAATTINI CCCCGGATAC CCCTGAGG: GGICGGAGG ATTTAGAGCA

GTGCAAGAAA CCAAGGAGGA TGGAGCATCC AAAGGAAGAL AGGCAGGC TNGGGGATTG AGGCAGGAA GGGCT

SEO ID NO:1848: (Length of Sequence = 311 Nucleotides)

CCACTGGCCT ACATTATAGA AGTGCTGTAT GCGGACCCTG CCATTGTCAT CATGGACGCA GGCCATGACC ATCATCACCA CCCATTTINT TGTCTGAAGA GAATCCAACT GCTACCCAAC CATCTGTGTC TGCACTCAGC TCAAATTCTA CATCAGCCCC TATCATCCGG TAGCTGAGGA AATAGTCACA GGTCTCTGCA TTACAGCCTG GTTTGCCATA TCTAAAGCAT CCCTTAGTTT TTCCACAGTC GTCCACCTTG ATTTTGGCAA ATGGNTCCAC AGGAGAAGCA GCAGGGCTNN GTGTCGGGTG T

SEO ID NO:1849: (Length of Sequence = 318 Nucleotides)

GTGAGTCCCC CAAGAGGGGC CTCAGTCACG AATGTCGATG ACCAGTGGGC ACAGGTGGAG TGAGTGCTTG ATGCCCATGG
TGAAAGCAGG GATGTGGGGC TTGTGCACAG TGANCTGCTG GACCTCGTGG GAGCCGGGGC CAGGCCGTGG CGTGAGGTCC
AGAGGGTAGG CGAAGGCTTG GCCATGCTGT AAGTAGGGCT GCGGTTCTNA TAGATGGATG GCTCAGGTCG GGCGTACGTG
GTAGGTCCAG GGCCTCCTGC CACATCCTCC TTGTAGANCC AGTTCTTGTC CCTGGAGGCC AGACTNTAGC AGGGAGCA

SEO ID NO:1850: (Length of Sequence = 406 Nucleotides)

GEAAGCCACT GATTITCCCT CCAGIATGAT GATTIACTIT AAAAATGAAC CCAGAGGGAC GGGCATGGTG GCTTATGCCT CTAATCCCAG CACITCAGGA GGCTGAGGCA GGCAGATCAC CTGAGGTCAG GAGTTCGAGA CCAGCCTGGC CAATATGGTG AAACGCCTGT NICIACTGAA AATATAAAAA TTAGCCGGGT GTGGTGGTGT GCACCTGTAG TCCCAGCTAC TCAGGAGGCT GAGGCAGGAG ACTCACTNAA CCCTCGTGGT GGAGGTCGCA ATGAGCCGAG ATTNCACCAC TGACTNCAGC TTTGGCAACA GAGCAAAGAC INCGTCTTCA AAAAAAAATA ANAAGGGAAA AAAAACCCNG NAAAAGCTTT TTTATTGTTA AAAACAAGTG GGTCACC

SEQ ID NO:1851: (Length of Sequence = 328 Nucleotides)

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CTGAGGGCA TITITIATIA TAAATTIAAT ATGGITGATI AATGAAAAAT GACAATGAG TACCAAGAAA ATGITIGTCA
ATATAAAAAT TITAGCAGCA TITCCATAGT TICAGGCTCC AACATTAGTC GTACTTCCTC CCTCCCGCTA TCAAAAAAAG
AAGAGACTCC AATGGGATGG AGTAGAGCCT GGGGGTGTCC AGCTTTGTGT GGGCCTCAGA GAAATACTCC ATCCAGCATC
CAGGATTCTC CCTCCCTCTC ATCCCTGAAG TGCTAGAATG TCAAAGCACA GAAAAAGCCT CCTTTGTGCT GACATTGGAG
ACAAGGAT

SEO ID NO:1852: (Length of Sequence = 174 Nucleotides)

GOCCAGGACG GCTCTNGGCC CTTCCTGGCT GACTTCAACG GCTTCTCCCA CCTGGAGCTG AGAGGCCTGC ACACCTTTGC ACGGGACCTG GGGGAGAAGA TGGNGCTGGA GGTTCGTGTT CCTGGCACGA GGCCCCAGCG GCCTNCTGCT CTTACNAACG GAGCAGTAAG GACG

SEO ID NO:1853: (Length of Sequence = 252 Nucleotides)

GAGCCATGCA CACACAGGGC CGCATAGTCA CACACGCATA TCTACATGTC CCCCCCACAT ATACACACAC ACATATACAT GGACCCATGC ACACACAGG CTGGATATTC ACACACACTT GCACATCCAC TCCATATACA TAGACACGCA CAGACACAGC TGCATGTTCA CACACGAGGA CGTGCACAGG GACACAGACA TGCATGCATA TGCGCACAGG TGTGTACAGC CTCAGTGGTG GGGGTTGGCT GT

SEO ID NO:1854: (Length of Sequence = 288 Nucleotides)

GGAAGGAGGG CTAAACAATG GTCTGCAGCT CAGTTACTCC TCATCCTCGC CTGGGCCGGG CCAGCATCCA CTCCCCTTCC
TGTAAAGCAT TTGGATTTCC TTGGGGAAAC AGCCCTGCCC TCTGTCCTGA TCCATGTGTT TTGAGATCTC ACAGTAGCAA
GTGACTCATG TTGGTTCAGT GATTCCCAGA GGCTGATTCA AGGATGTCCC CAGCTAGACC CAGGATGGTG GACTCCAGAT
TGGGGCACTG GGCAGTTTCA CATCCTCAAG GCTTGGCCAT CATCGGGG

SEO ID NO:1855: (Length of Sequence = 293 Nucleotides)

AAAATGCTIG TIGATATTITI AGITATTAAT TCATATTAAC TITGGCTGAA ACTITTAAAT TCTATTGTGA ATAGTCAAGT
AAAATTTAGA TIGITACATT CIGGGTTAGT ATTAGATTGI TITTAAGATT GITTTAAACA AGATGTTITI AAGATGAGIT
TTAAATAGIT CICTTAACAC AAATAAAGCT TAATATGAGT ATTIGAAGGA AATTATCCCA AACCATTCCA GITCCIGGCT
GTGAAAGGCT TITCCAGGGC TAATAAGTIT TCCACTTCAG CCGTAAGTAG GIG

SEO ID NO:1856: (Length of Sequence = 308 Nucleotides)

ATCTTAGCAG AATCTTGAAA AGCCCAGAGA TCCAAAGAGC CCTTCGAGCA CCACGCAAGA AGATCCATCG CAGAGTCCTA
AAGAAGAACC CACTGAAAAA CTTGAGAATC ATGTTGAAGC TAAACCCATA TGCAAAGACC ATGCGCCGGA ACACCATTCT
TCGCCAGGCC AGGAATCACA AGCTCCGGGT GGATAAGGCA GCTNCTGCAG CAGCGGGCAC TTACAAGCCA AATCAGATGA
GAAGGCGGCG GTTGCAGGCA AGAAGCCTGT GGTAGGTAAG AAAGGAAAGA AGCCTGCTGT TGGTGTTA

SEO ID NO:1857: (Length of Sequence = 299 Nucleotides)

GGGGAAAGCT AATTGGCAAT AATCCTTGCG GGAAGGTCAG ACTCCTCTCT TACAGATCTA GGGAAGGCCT GGTAAAATGA
TGGCTCTTTG GAAAATGCCA AGCTCCTTCA GATTCCATAC CCTCTCGGGC CCTCAAGCAT AGGCAACGAA CTTGTTCCTG
GCTTCACGNT TTCTCATTGA ATCAAAGCTC TCATGCATGG CCTGGATTTG TAAACACATG CTGGCTGCCA GCAGTGGCAA
GTTAGCCTCC TGACCCACTT CTCTCCTCCT TTCACTCTGG TGTATGAAGG GGGATCAGG

SEO ID NO:1858: (Length of Sequence = 295 Nucleotides)

TAAGACITCC TGITAGIAAA AGCIACCICA TGAAAAGIAT TGATGITAIT TGCCAACAIT TAGACIAGCI TITIGITACCG
TITCAGITAT TCAAITTAGI CAGCACAIGI TIGAGIGICI TACIGCAGGI GAATAATCCA TGATTICTGC CCCAGAGIAG
TITCATAAGAC TGGIAGGATA CATAGATITG TAAATAAATA ATTATAATIC TGGGCAGIAA GIGCIGCIAT AGAAGICTCT
ATAAAGCAAT GIGCAAACAC AAGAAAAGGA GCCGITAATI CCITATAGGG AAAGG

SEO ID NO:1859: (Length of Sequence = 326 Nucleotides)

CITTATITAG TGCTGGGGCT TTGGAAGCAA ATGTACCTGA GITTGAATCT CAGGGATAAC CITTTGACTG TGGCCCTGGG
TAAGTTACTC ACTGTCTCTG AAACTTCAAG TTCCTCATAA ATAACCTAAG ATGGACAATC ATAACTCTCT CTTGGATTGA
GGTAGGAGAA TATGGTGGAG GCAGGGAACC GAAGGCCATT TCACTCCAAC TTCCTAGAAC TAAATTAAAA GGAAAACCCT
AATTTTCCAT GCCTAAGTAA CAAAAGGACC AAAGGTTACT CCGTTTGCAA ACTCCCACCT TTTCTGCATG GCAGATGGGA
AGTTGG

SEO ID NO:1860: (Length of Sequence = 294 Nucleotides)

CCACCCCTAA AAGCACCTGG CCCCGCTACA GCAAACCAGG TCTGTCCATG CGGCTGCTGG AATCAAAAAA AGGCCTCTCC
TTCTTTGCGT TTGAGCACAG TGAGGAGTAC CAGCAGGCTC AGCACAAGTT CCTGGTGGCC GTGGAGTCTA TGGAGCCGAA
CAACATCGTG GTTCTGCTCC AGACGAGCCC TTACCACGTT GACTCACTCC TGCAGCTCAG CGATGCCTGC CGCTTTCAAG
AGGATCAGGA GATGGCTCGA GACCTCGTAG AGAGAGCCCT GTACAGCATG GAAT

SEO ID NO:1861: (Length of Sequence = 183 Nucleotides)

TEAAGACTCC TAATCTAGTG CCTCGAGAAA AGCAGGCAAC AGAGGCCTGA TGTCTGACAT TGACTCTTTG GAAGATTAAA CTTCCTCACA GATTTINATA ATNACTITGG AAATNATGAC TGATCGCCAG GCTGTTCCTT GGGTGGACAG TTTGTCTTT TTTTTTTTTT TTTTTTTTT TTT

SEO ID NO:1862: (1 -h of Sequence = 296 Nucleotides)

TTCGGCTTCT TAAAGITC... CCCATCCCTC CTAAGGTCTA AGATGATGCA TTAAACACAG AGGATGCCCA ACAGTGGCTG
ATGGAATTAC CAAGTAAAAT CTAAGAGGTA GAAAAATGTG GTAGTTTTTA AATTTTATTT TATTAGTATG CAGGTGGGAT
TCAGAGACGT AAGATCTTAG CCTTTATTTT CAACATCTCC CATGCATGTC AACAAAGATT ATCAAACACA GGAAGTGAAT
AAAATACTAT GTAGACACTG ACCCTCTTTA TATAAAATGT GATTGATCAG GTCTGG

SEO ID NO:1863: (Length of Sequence = 259 Nucleotides)

CAAAACAAAA AGGGGCTCAA ACCAACAGGA AGTCAGCCCC ACCGCAAGCC GGACTACAAC TAACTCGTGC TCTCCACGCT CAGGCGTGGA AGCCAAGGCT GTGCCAGGCC TGGCCAGGCC AAGCAGGATG ACAGCAAACG CATTCTGAAC GTMTAGCAAT CAGGTCCCCT GTAATGTGCT TGGAGAGTMT GGACAAGGGC CGAGATGACG AGCTATGAGC TGTGGAAGGG AATGGGGGAA GCAGAAGGGC ACAAACAGA

SEO ID NO:1864: (Length of Sequence = 290 Nucleotides)

ATCCTTACCA ACAATGCTTC CCAACTGCCT CAAAGCTCTC CTAAATGAGA ACATAGTTCT TTCTGAGCAA GGTCCTGTGG
ACCATGAAGA ATGTCACCAA GCTCCCCCTCA GAGTCAGGGG GAGCTCAGCC AAAGCACAAG TGCAGTGCCC AGCTCCTCCC
ACTCTGCACC TGCTGCCTCA NACTCCCCAC GCTGAGCCCA GGCCCCTACC CTCTGAAGGT GTTTCCCATG TGATTCTGAC
ACACACACCC CACAAGAACC AGATGATCTA TGCCATACAC CATTTAGCTA

SEO ID NO:1865: (Length of Sequence = 236 Nucleotides)

CATTICTGIT ACATTGAGAC TICAGTCACC AACATCIGGT GGCAGAGATA CAGGIGTATG AAACATTICT ATTTACCCAA
ATATGCCAGI TCCCAAATAG GATGACTGCA TITAGTGITA AACTGGCTIT TCTCATTAGA TACTCTAATT GAGGAATATT
TAGCTTCTTG AATAGAAACC ATCCAAATGA TGTTTTTTTT TTGATATGTC TGTAACTATA AAAATCAGCA AATAAG

SEO ID NO:1866: (Length of Sequence = 424 Nucleotides)

TACGGGAAGG CGGTGTTTGG AGGCTGGAGC CGTGGCAACG TCATTGAGAA AATGCTCACA GACCGGCGT CTACAGACCT
TAATGAGAGC CGCCGTGCAG ACGTGCTTGC CTTCCCAAGC TCTGGCTTCA CTGACTTGGC AGAGATTGTN TCCCGGATTG
AGCCCCCCAC GAGCTATGTC TCTNATGGCT GTGCTGACGG AGAGGAGTCA GATTGTCTGA CAGAGTATGA GGAGGACGCC
GGACCCGACT GCTCGAGGGA TGAAGGGGGG TNCCCCGAGG GCGCAACCCA GCACTGCCTC CGAGATGGAG GAGGAGAAGT
CGATTCTCCG GCAACGACGC TGTCTGCCCC AGGAGCCGCC CGGCTCAGCC ACAGATGCCT NAGGACCTCG ACAAGGGTCA
CCCCTCCTCC ACCCTGGACT GGCT

SEO ID NO:1867: (Length of Sequence = 256 Nucleotides)

AAACAATIGA AATCCACAAG AAATTACTAA CAGCACGIGI TTACGITTTA TCCIGAATCA TACATTITAA CAATTCACAG CTACAGGAAA TCTAGAACAA AATCAAATAT TCATCACGIT GGGITGAAAA GITGGAAGAT TTIGCATCIT ATTGAAAAGA ATTTITCAAA AATGITTCIG TACAAATGAA TGGAATTGCA CCAGGCTGCC CATGGACACC AGGIGTGGCC GCTTCCCAAC GGTCACCCAC CAGCIT

SEO ID NO:1868: (Length of Sequence = 297 Nucleotides)

CAAGGITITI TITITATITGI AGCIATAGCI ACAACTIGGC AGCATGGGG AGGGTGGGAA TGTCCTGGAG GGTCTCCCAG
CCCTCCGCAA GCAGAGTACA AAGGCTGCTC GGGGGCCGG CCGAGGGCGC GGNTGCAGCA GTGNAAGCAG CAGCACTAAA
CCTGGTGCCC CCCTCAGGTG GGGTGTCTGG AAGACGGTGG GCAATCCCTG CAGGATGGGC GAGGACCAGA CCCCAGGGCG
GGGATCCTGC ATCCCTAGAC CATGTTGGGT CCTGGGTCAN GGCACCTNGG NATGCTA

SEO ID NO:1869: (Length of Sequence = 470 Nucleotides)

CAGACATCIG GAGCATGGGA CIGICTCIGG TAGAGATGGC GGITGGGAGG TATCCCATCC CICCTCCAGA TGCCAAGGAG CIGAGACTGA TGITTGGGIG CCAGGIGGAA GGAGATGCGG CIGAGACCCC ACCCAGGCCA AGGACCCCCG GGAGGCCCCT TAGCTCATAC GGAATGGACA GCCGACCTCC CATGGCAATT TITGAGITGI TGGATTACAT AGTCAACGAG CCTCCTCCAA ACTGCCCAGT GGAGINITCA NICTGGAATT TCAAGATTTT NIGAATAAAT GCITAATAAA AAACCCCCGC AGAGAGAGCA GNITTINAAG CAACTCATGG TTCATGCTTT TTATCAAGGG GATCINGATG CTGAGGAAGT NNGATTTTTT CAAGGITGGN TCTGCINCAC CATNGGGCTT TAACCAGNCC CGGNACAACC AACCCATGGN TGNTGGNGIT TAAGGNGTTTT

SEO ID NO:1870: (Length of Sequence = 344 Nucleotides)

AGAGATTAGA TITIGITAAAC ATCTAGGITA AAATGGITAA AAGGATTITC ATACAATTIT AGGCACTATA CACGITGITT
ACAACAGCAT TGGTACTTGG ATATGGGGAA AGATAAATCC GACATTITAA TATCTTGATC AATTTGTGAC ATTCAAAATA
ATTCCATTTA AGAAACATTA ATCAAAACTT AAAGAGACAT ACCACTAAGT ATCCCACACA GTATACTGAA AATAAATATA
GNAATACAAC CAGAAGTCTA CAGNICACCA CAGTAGACAG ACTGGTGAAG NCCCAGCTTT TCATGGGCAG TNAAGGGCTC
TGGGCTAGAT TTGGGTGTCA ACTG

SEO ID NO:1871: (Length of Sequence = 278 Nucleotides)

GGATTTATTG TCATTCCTCC AAGGTCAGCA GGGGAAGGGG ACACCAGCCA CACTTCACCA CAGGCATAGG TGGCACTGAG CCACCTGGCA CTATCTCCAC GTGCTCCACA CGGAGGGGTG CCTTCTCACT GGCAGCAGCT GCACTTCTCT GCTTCTGCCT CAGCTGCCTC TCCGCCTTTG CACACACAGT CCTTGGCACA CTTCTCACAC TNCGCAGGCA GCAGGAGCAG CAGCTCTTCT
TGCAGGAGGT GCATTTGCAT CCCTCGCACT TGCAGGAG

SEO ID NO:1872: (Length of Sequence = 271 Nucleotides)

CTTGCCATCT TCACAGCCAG AAGCTTCCTT GCTTCATGCG CAGACCCTCG TGACTCCCCT TCCCTTATAA GGGCCCCCAT
GATTACTCAG GGCCCACCTC AACCATCCAC GGTCATCTCC CCACCACGAA ATCCTGAACT GAAGCACAGG CGCCGGTTCC
CTTTTGCCAC GCAAGGTAAC ACTTTCCCAC GTCCTGGGGT TCCAAACCTG CACATCTCTG GGGGCTGTTA TINCACCCAC
CGTCATCAGT GAGGCGCCCTT NAGGAGGGGC T

SEO ID NO:1873: (Length of Sequence = 332 Nucleotides)

CAGGGIATAG TECAGIGGOG CAATCICOGC CCACCACAGI CICGACCICA TEGGCICAAG TEATCCICCC ACCICAGCCI
CCCAAGIAGC TEGGACIACA GECATCCICC ACCATGCCCA GCCAATITIT TECATITITIC ATAGAGAAGG GGCITCACCA
TECIGCCCAG ACTGGICICG AACICCIGGG CICAAGCCAT GGAATIGCCI TEGGCTCCCA AAGIGITAGG ATCACAGCCG
CGAGCCCCIG GACCCGGCCI ATAGITTITG TITCGCITIG TITTITGITTI TIGAGATGGA GICICACCCI GICANCCAGA
TEGGAGIGCA GC

SEO ID NO:1874: (Length of Sequence = 317 Nucleotides)

CTCTCCACCT CAACCTCCAG CCCACCTCCA GGCTGGGGAA GGGGCTGAGT CTTCCCCTCC CATACATACC TCACCCGGCC CCCAGCCCAC AGAGAGGCTG AGGGAGGGCC TCTGGGTCCT CCTCCATCCC TGTACCTGCT TCTTCCCTCT TCATTTCCAC CTTCTAGATC TTTCCCCCCA CCCAGCCCCAC CTCCAGGCTG GGGAAGGTGA GGAATTCTTT CCTCCCACAC CCTACCCCAC CTCCACGCTG TGAACCACAC GACCCACAAC CCCGACCCT GCAGGCT

SEO ID NO:1875: (Length of Sequence = 185 Nucleotides)

GIGITICCACC CACCTOGGCC TCCCAAAGIG CIGGGATTCC TGGCGTGAGC ACGCTGGGCC TGGACAGICT GCCCCTAGAT GAGTTGCCCA GCACGGTACA GCTACTGCCT GCCCGGACCC CAGCCCCTGA TTCTACCGCC GCTCGGCAGG GGGACGGCCA GGGAGAGGTC CAGCCGCGCG GCAAG

SEO ID NO:1876: (Length of Sequence = 214 Nucleotides)

CCTGGGGACA AAATAGTCAG CAAATTCTCA AGGGGAGAAA ATAAAGTACT TCCCTTCTGT TAAAAAAAAG TCAAGAGACA AATCTTTCCT CCCCCATTCT CACTAATAGT TATTGAAGGG GAAAAAAAAA AACCCCACAA CTTTTTAAAC TAAAGATAAA AACAAATGAA AATGAATAAG ATCCAAAGAA TGTCTTTTGT TACTCTGCCT TATG

SEO ID NO:1877: (Length of Sequence = 340 Nucleotides)

TITEAAGAG AAGAAGITGA ATTIATCAGI GIGCCIGICC CAGAGITIGC AGATAGIGAT CCIGCCAACA TIGITCATGA
CITTAACAAG AAACITACAG CCTATTIAGA TCTTAACCIG GNIAAGIGCT ATGIGATCCC TCTGAACACI TCCATTGITA
TGCCACCCAG AAACCTACIG GAGITACTTA TTAACATCAA GGCTGGAACC TATTTGCCTC AGTCCIATCT GATTCATGAG
CACATGGITA TTACTGATCG CATTGAAAAC ATTGATCACC TGGGTTTCTT TATTTATCGA CTGTGTCATG ACAAGGAAAC
TTACAAACTG CAACGGAAG

SEO ID NO:1878: (Length of Sequence = 326 Nucleotides)

GAAAAACAAG GAAAATAGGC AACAACCTGC AATGGACACT TITCTCTACA GAACCTTTC AACCCTGAAT TGAATTGTTT
CCTATTCATT TNCTAATAAA AAGTTACTTT GCAAGATATA AGGAAATACT GTCCCAAAGA TTTTCACTAG TCATTCAATC
CATTAATAGG ATTTGAAAAG GCATCATTAC ACAGGGTTGA AAATACTCTG GAATGAGACT GCTTTACAGT CAGAATGCCT
GAGTTTTGAG GCACTGTTAC TTCTAAACAT CTCTAAGTTT CTATTTNCTC ATCTAAAGGA GTAATATTAC TTTCCTTAAA
AGGTTG

SEO ID NO:1879: (Length of Sequence = 222 Nucleotides)

GAAAGGAGA GGITGCAGGG AGCCAAGATC GTGCCACTGC ACTCCCACCT GGGTGACAGG GCAAGACTCC ATCTTAAAAA AGAAAACCCA GGAGTCTTTG GTTAATGTAG TGCAGGACTC TGAGCTCCCG GGAGGACCCT TCCCTCCCAG ATGAACTGTG ATGGACCAGC CCAAAGGAGG GGAGAGAGCA CTINGGCCAT AGTGGTGGTG GATCTTTCTA AC

SEO ID NO:1880: (Length of Sequence = 244 Nucleotides)

GACATGAATG GTATCCTCCT GGGGTATGAG ATCCGCTACT GGAAAGCTGG GGACAAAGAA GCAGCTGCGG ACCGAGTGAG
GACAGCAGGG CTGGACACCA GTGCCCGAGT CAGCGGCCTG CATCCCAACA CCAAGTACCA TGTGACCGTG AGGGCCTACA
ACCAGGCTGG CACTNGGCCT GCCAGCCCTT CTGCCAACGN CACGACCATG TAAGCCCCCT CCGCGGCGAC CTCCTGGGCA
ACAT

SEQ ID NO:1881: (Length of Sequence = 156 Nucleotides)

GTACAGGGGA GAGTIGAGCT GTGACAAAGT CAAACACAGG CCTTGGCCAC CCACAGGAGC TCTGCAGCTG GGGTGGTCTT GAAAGTTGTC TCAGTGAAGG CAAGGTGCTG AGCTTATTAC CCCAGCAGTC ATTGTATTTA GGCTCCGTGT GGTACC

SEO ID NO:1882: (Length of Sequence = 210 Mucleotides)

TTTTTTTTGA AACGAAGICT CAGTCTGTCA CCCAGGCTGG AGTGCAGTGG CACGATCCCG GCTCACTGCA ACCTCTGTNT CCCAGGCTCA AGCTAGTCTC CTGCCTCAGC TGCCCGAGCA GACGGGACTA CAGGCACCCC CACCACGCCC GGCCAATCTC CAAATGGTTC TTTTTTTCCG GAGTAGTAAG TTACAATATG GGAGATTATT

SEQ ID NO:1883: (Length of Sequence = 214 Nucleotides)

GTGATGAATA CATCCAGTTT TCCAACCACA TTCCACCAGG TGGGTGTTG GCTGTGGGAC GCATTATGTA ATCTTCGTTG
CCAGGAAATT TACCTTCCTA ATTACATTTT GCAAATGTTC ATTTGAAGCC GCCTTCTTGG AGCTCACAGT AACTAGGAGG
TGGCTGCTGG AAGCCCCAGG GCACCGTGGG AGGGACAGGG GAACGTCCCA GACC

SEO ID NO:1884: (Length of Sequence = 211 Nucleotides)

ATCTTTCGCT CTATGTGCCA TCACCTGGAC ACTCTAGGTA ATACCCCCTG TTGGGCAGGG GTGAGCTCCC AAGGCCTCAG GCAACCCAGC TCCCATGACT TTGCTGGGCT CAGCCCACAT AACTGTTCTC ACAGGATAGA GTTGTACACT GGTGCTTACA GCTTTCCTGG GCCAGTGTTG CATGCTGCCA GTGGCTGCAG CAGCAGCCCC A

SEQ ID NO:1885: (Length of Sequence = 212 Nucleotides)

ATTAGCTGAA TICGCGTGTG GCGGTTTGGG TAGGCAAAGG AGACATCTTG GAACTGGACA AGGCCCTCCA AGTGTAAGGG
AGTCAACAGA CCACTGGGTG GGCAGCGAGG GGTGCGGTCC AGGTACTCAA ATATTTTCTC TGAGGAGCCC ACAGCCTTCT
GTACTCTGGG GTAGATGGAG AGCAGTACCT CCACAGCCTG GGTGAACTGC AT

SEO ID NO:1886: (Length of Sequence = 208 Nucleotides)

CATCCGCATA GTATTTACAT CATCGGTATA GGCAAGINCT ACAAATCAGG NCTTINCCTT GGGGATGGAT GTTTGGAGCT AGTTTACCAG CACACCAGIG GGTAAAAGIG AACAAATACT TTTTTGATCC CACAGAATCT TAAAAAATAC TTTACTTCGA AAATGTCTCT ACTAAGTAAT CATATATATA TATATATNIG TATATATA

SEO ID NO:1887: (Length of Sequence = 332 Nucleotides)

CTCGTTCACT GCCCGCCAAC TCCCATTCCA ACITCCTTT TACACTGGAT GTTTCTATCA CATCCTGAGG ACCACTAACC CACCAGCAAG TCTCCCCCTG ACACACATTC ACGTAGGTCC ATACCCTTCA GAGTCCTAAA GGGTTAATGA GAAGCCACCT CAGCTTTGGT GAATGGAGCC CCAGCCCCAA ATCCCCTCCC CTTGCAAATA TGGGACAAGT AGGGAGAGTC TGATGGAGGC ACCAGGACAA CTACAACAAC CTCTTACCCC TCAGCTATAG ACACCTAGAT CAGGACAGAG GGATGCATAT GCCCTCTCCA CCTTAACACC AA

SEO ID NO:1888: (Length of Sequence = 224 Nucleotides)

AAGAGCTGAT TGAGGCTGCC AAGAGGAACG ACTTCTGTAA GCTCCAGGAG CTGCACCGAG CTGGGGGGGA CCTCATGCAC CGAGACGAGC AGAGTCGCAC GCTCCTGCAC CACGCAGTCA GCACTGGCAG CAAGGATGTG GTCCGCTACC TGCTGGACCA CGCCCCCCCA GAGATCCTTG ATGCGGTGGA GGAAAACGGG GAGACCTGTT TNCACCAAGC AGCG

SEO ID NO:1889: (Length of Sequence = 261 Nucleotides)

SEO ID NO:1890: (Length of Sequence = 312 Nucleotides)

CTGCGAGACT ACGAGACGGT GGTCAAGGTG AAGCCCCATG ACAAGGATGC CAAAATGAAA TACCAGGAGT GCAACAAGAT
CGTGAAGCAG AAGGCCTTTG AGCGGGCCAT CGCGGGCGAC GAGCACAAGC GCTCCGTGGT GGACTCGCTG GACATCGAGA
GCATGACCAT TGAGGATGAG TACAGCGGAC CCAAGCTTGA AGACGGCAAA GTGACAATCA GTTTCATGAA GGAGCTCATG
CAGTGGTACA AGGNCCAGAA GAAACTGCAC CGGAAATGTG CCTACCAGAC AGAGAAGATT ACAGTATGTG GG

SEO ID NO:1891: (Length of Sequence = 298 Nucleotides)

CCTAAAGGCC AGGCAAGGCT GATTCTCCAC TTCCACATGA GACAGAGCTG ATTCTGCAGG GAAACGGCTG GGGAGGCTCC ACCTCTTTCC TCCCCACAAC CATTTACTGG GAAGTTGTGT ATACTTGGCA GINTGGGAGG AAGGTACTTG GAAGACCCTG CCAGCCATCT CCCACCCAGA CTTCTTCTCA CCAGCACAGT CTTCAAGGCT TGGTGGGAAA GGTGTGTGGG AGTGGAGAAA GACAAAGGGC CCTTCTINAA GAGAGGAGCT GCAGAGAGGG GCAAAGGGGT TCCTAGCC

SEO ID NO:1892: (Length of Sequence = 333 Nucleotides)

CICCAAGGIC ATCCAGTCCG TCGCTAATTA TGCAAAGGGT GACCTGGACA TATCTTACAT CACATCCAGA ATTGCAGTGA
TGTCATTCCC AGCAGAAGGT GTGGAGTCAG CGCTCAAAAA CAACATCGAA GATTGCGGTT GTTCCTGGAC TCCAAGCACC
CAGGGCACTA TGCCGTCTAC AACCTGTCCC CGAGGACCTA CCGGCCCTCC AGGTTCCACA ACCGGGTCTC CGAGTGTGGC
TGGGCAGCAC GGCGGCCCCC ACACCTGCAC ACCCTGTACA ACATCTGCAG GAACATGCAC GNCTGGCTGC GGCAGGACCA
CAAGAACGTC TTC

SEO ID NO:1893: (Length of Sequence = 487 Nucleotides)

CCAGATAGAG TITCTGTTT TNAGTITTAC ACGIGCCACA TCAGGGAAAG TTAGGTTATG ATTAAAGCAA GAGATGATAG ATGAACAAAC AAAGAAACAA CAACAAAAAG CCCATGCAAG AGGCAGGAAA AGAGGCTGAC TGGTTAAAGA ACAGGCCAGA TTGGACAATA CTGATCAAGA GGGGTTCACA TTTGAAAGAA CAGTGCTTTA TTCCTCTACT GACTAGAACT AAAGGGATTT TGGCCGGGTA CGGTGGCTCA CACCTGTAAT CCCAACACTC TGGGAAGCCA AGGTGGGCGG GTCACGAGGT CAGGAGTTCG AGACCAGCCT NACCAACATG GGTGAAACCC CATCTCTACC CAAAATACAA AAACTTTTNC CGAGCGTGGG CCCGCGGTTG GTTGGCTCAT ACATTTNATN CCCCCCNCTTT NGGGGGCCCCA NCCGGGCGGT TCACCTTAGG GTCAAAGGGT NCGGGGNCCT TCTTGGC

SEO ID NO:1894: (Length of Sequence = 283 Nucleotides)

GETGETGAAG TEGGETCTEG AGAAGCTGGA GCTGACCAAG TACGCAGACA AGCCGGCTGG CACCTACAGC GGCGCAACA
AGCGGAAGCT CTCCACGGCC ATCGCCCTCA TTGGGTACCC AGCCTTCATC TTCCTGGACG AGCCCACCAC AGGCATGGAC
CCCAAGGCCC GGCGCTTCCT CTGGAACCTC ATCCTCGACC TCATCAAGAC AGGGCGTTCA GTGGTGCTGA CATCACACAG
CATGGAGGAG TGCGAGGCGC TGTGCACGCG GCTGGCCATC ATG

SEO ID NO:1895: (Length of Sequence = 234 Nucleotides)

ATGTCCATTA GCCTCATTTG TCATCTGAGG GAGCTGGTGA GAACAGCCTT GGCGTGAAGG CATCCCTGGT AGAAGTCGGG GGAGATAGAT AGTCACAGTT CCCCAGTTGG TGGAAATNGG ATNGGAGTAG GGAGAGGCTN GAACAGACCC TTCCCCATTC ACCTGGNGAA TTTTCTCCTC CCACTGCCCT AAACACTTTA TTTCCATCAC AGGGGAGAAA TNCTGCTGAG AAGG

SEO ID NO:1896: (Length of Sequence = 285 Nucleotides)

CITTAAAGIG TAATAATATG ATTITITAAA AGAAATTTAT TACTTGITGC AAAGGICITI TTAAACCAGI TTAGATTICA AGAAAAAATA AATGGAAATC ATCGAAAATT CATTTCACAT TAATGGICTA AAAATAAACC AAAGGACATT ATGIGTGCAT GTGTGTATAA GTGCACACAG AAATATATAT NCATATGING ACTATATACA TGTGTGTATA TATGTGTATA TATACATNCA CTTGTATAAA TGTATATACA CATATACCTA TAATGTGTGT ATGIG

SEO ID NO:1897: (Length of Sequence = 288 Nucleotides)

GCAGGITIAT GITTITATIT ATGITATINA ACTGACITAT TIGIGITATCC CACTAGAACA ATACATICAC AATATACTIG
CAGAACTGIG CCTGGGGGAT CATGGGAGCA GAGAACTIGI CCAGIGAATA GITGITGAAG AAAGGAGTAA AAWCTCCCCC
AAACCCTAAA GGCATCCTIT TCGTAGTGIG TGTCCCAYAG GTATGGCTGC TGAGCACCAG GGGCTGCTCA CCATGNTCCC
AAGAACCAGA GTCANGGAGG CAGACAGCAG GGKTTATTAA GGTGCACA

SEO ID NO:1898: (Length of Sequence = 398 Nucleotides)

CAGAAGTAAA AGATTTITAT TGTTCTATAG ACACTTCTGA AAAGAGATCT AATTGAGAAA ATATACAAAG CATTTAAGAG
TTTCATCCCC AGAGACTGAC TGAAGGCGTT ACAGCCCTCC TCTCCAAGGC TCAGGGCTGA GAACGGTTAG CATATCGAAT
GATCAGTAAA AACATGCAAA AGTGAGAAGG AAAGGGAAAA AGGTGCATTC CCCTAAGCTG AGGGGGATGG AATTTCAGAA
CAGAGGAGGC AGGGTGGACA AGTACCAGGT GGCTCTCCCT TTCCCTCTGT GTTATCTTTC AAAACAGTTC CAAGCTTTGA
GAAAGCAATG AGCTCCACCT ACTCAGCAGA CCCACGGGTC GTCCCCCTGG ACGTGACTTA GCAGTGACCT TGCCTGCC

SEO ID NO:1899: (Length of Sequence = 227 Nucleotides)

CATGGGGACC CGGTTTATT TTATTAGGAA GGAAACAACC AAGCACCCCA TGTTCCTGCC CGGTACTCCC GGGGACACACCCGTGT
TGCCAAAMAG CCGGGGATCG AACCCAGCCC ACCTGTCGTG GRGGKCCCTT CCTTCTCAGG CCACAGAAAT AAACCCGTGT

ACTITYTIATT GITAGCACAA CATTACCAGA AAACEKTAAC GGCAGCCAAG CAGGACAGAC AGTTAAG

SEO ID NO:1900: (Length of Sequence = 405 Mucleotides)

GGGATGCACT GGGTTTCACA TCAAGTTCTT GAGAGGWTCC CGAACGACTT CTCTGCCCCA GGGGAGTCCG AGCCACAGTT

TTCTGATCAA CTGATGATTC TRACCCGCTT CTTTCTCTCT GGGGGTAAG ACACTTGTTG TTGAGCTCTG GGGATGATGG

AGAACGACTC CTCGGCCTAG GAGTCTGAGG CAAAGCTTTC GGTTCTGGGG AAGAATCACA TTCGCTTCTC CCTCTAGATG

GCGTTCTAGG TATATCTTTC ATTCCAGGAG AGGACCCAGA CAGGCTGTGC CTCGAGGGAG TCCCAGACCC ATCTCTAAGT

CCTGGAGAAG ACCCAGACCT GCTTCTCCTT GATGGAGTTC TGGTAAACCA TCTTTCATTT CAGGAGAAGA TGCAGACTAC

TTCTT

SEO ID NO:1901: (Length of Sequence = 244 Nucleotides)

ATRATICATA TECTAGTITA TITATCITAT TATTGAGAGA TAATTICATG ATGACAGTTA TCAATAATCA ATTACAATAT
CAAGAAATTC AAAGAACAAA ATCITGCAGA GACTATGCTT TIGTATTIGG ATTTAAAAAG TATGTGATCT CATTTTCACA
TACCAAGCTG AGAGGCCATT TAGACTATCT CITTGCTAAT TITTGCTTAC TGCTGTAGGG AAGAAGATTT CCAATGAMCT
TTAG

SEO ID NO:1902: (Length of Sequence = 329 Nucleotides)

TARARATARA ARATTARA ARATTITARA RATARTARAR ATTCACTATA TACACATATA RAGRARITARA ARGARITOTO AGTTGCAGCT ATTTGTCARA ATTRATACCC ATTTCTWITW ATRACOGTIG RATATTGCGC RATTATAGAT CTGGATTTTA ARCCACTTRA TGRAGCGGCA ACACCAGGTIG TITTARAGGTIG TTGGCATTCT TCGCTGATTT GGCTGTTCCC RATGTTTACA TTATTTARACC TTGCCARARAT GGTTCTGATG CACTTGGGAT GTGRARATGCT GTCCCGTTTT ATTTTTTTARA TGTTGTTATC CTTGGGTGT

SEO ID NO:1903: (Length of Sequence = 421 Nucleotides)

ATTITATATI CCACAGICAG GIGGEICIGC GATASICATI TAAIGITAAA CGCCATCAGG GGCCICICCI CCCGITICIG CCAGGGGCTI TICTIGICTI CICCIGGIGC ATCATCATCA TCGICTICCI CITCCICGIG GGCAGATCII CICIGGIGGG GGCIGGCIGC TGGCICCGAG GGGCACACTC CAGGCCACTC CCICGGGGGT ACAGACCGIG GICCCACATI CGCIACCACT CIGITCCACG NCATCCAGG TACACGAGCT GCGIGTAGGC CGIGCIGTCT TGGGGCTCGA GGCTCTTTCT GCTGGTGCTC TTGGACGGC GGGTAAATTC T

SEO ID NO:1904: (Length of Sequence = 423 Nucleotides)

GTICTICIGGE CETIFICIGAA GTGACGGTGE AGCCAGGCTG CTCCCTGCCC AGCAACCCCG AAGCCATTGT GCTGGACGTC
GACTACAAGT NTGGGACCCC GATGCAGAGT GCTGCAAAAG CCCCATATCT GGCCAAGTTC AAGGTGAAGC GATGTGGAGT
TAGTGAACTT GAAAAAGAAG GTCTGCGGTG CCGCTCAGAC TCTGAGGATG AGTGCAGCAC GCAGGAGGCC GACGGCAGAA
GATCTCCTGG CAGGCAGCCA TCTTCAAACT GGGAGACGAC TTCCCGCAGG ACATGCTGGC CCTGCAGATC ATCGACCTCT
TTCAAGAACA TCTTCCAGCT TGTCCGCCTG GACCTCTTTG TTTTTCCCTA CCGCGTGGTG GCCACTGCCC CTGGGTTCGG
GGTGATCGAG TGCATCCCCG ACT

SEO ID NO:1905: (Length of Sequence = 370 Municipatides)

CAGAACCAGA ACATITITAC TCTTTGGGCT CTGGGAAGGG CCAGGCAGAG TGCAAGGTGT CCACAGGAGG GGTAAGCAGA GAGGAGCTAC AGGGGGCTGC AGTCCTAGTA CCCTGTTGGG GAGGACTGAG GGATGGTGAG TTTGGTCTCC GGAGGGGGCT CCAGTCCTGG TGCCCAGTTC TNACANCTGC CCCTCCTGAG TTCACACTGG AGTCCTTGCA GTCCTGAAAC CACAAGGCCT NCCTGAACCC TGGGTCAGGA GAGAAANACT TGGGGAGGG AAAGGACGGC GTGGGCTACC CATKACGGCT CTGAGTTCTT CCTGGGGCTT GTGTCTTTTC CTTGGCAGAA GAGGGCACAG CCAAAGGCAA

SEO ID NO:1906: (Length of Sequence = 415 Nucleotides)

GICACACCTT CATTCAGTGA GGAAGAAATG CTITCACTCT GGGAATTCAC AGCATCCCAA TCTGACGTTG TACCCGTGTG ACACTGTTTG TGAGCCCCAA GTTTCAACGA GCTCTTGCAA GTAAACGGAC ATTCGTCACA TTTGTAGACA GCTGTCTTTC CAGATAAGTG GATGTTTTCT ATGTGACGAG AGATCCTACG TCGATGCATG GTGAGGAAAG GACAAAAGGG GCACTGGAAC CTATTCATGA ATCINCTAAA TGGAATCCCC TTGGTCTCCA ATAATTTGTT GCCATCTGAG CCCATCAGCT GCTCTGCAGA CAGGCCTGAT GTCTGGTGAT CCACAGCACT TAAACCATTC TCACTTGTCT ATTTCATTTA ACTCTTCATC AGAACTAGAG TCATTAGCAT GCTGT

SEO ID NO:1907: (Length of Sequence = 214 Nucleotides)

TGAAATCCTG TACGTGTCAA CTTTGAAATG TATGTGTGT GGTTGGGTGG TGGTGATGTG ATACGGTTTG GATGTCTGTC
CCCTCCAAAT CTCATGTTGA ACTATAATCC CCAATGTTCC AGTTGACGTG GTGTTTGGTT CCATGGCGGG GTACCCTAGG
GATTCATCTG TTTTCTTCAC TTCCCTTTGC ATCTGAGATC CTGCTGGAAA CCAC

SEO ID NO:1908: (Length of Sequence = 410 Nucleotides)

CAGGAGAGCT GGGCACATGT CCCAAGCCTG TNAGTGGCCC TCCCTGGTGC ACTGTCCCCG AAACCCCTGC TTGGGAAGGG
AAGCTGTCGG GTGGGCTAGG ACTGACCCTT GTGGTGTTTT TTTGGGTGGT GGCTGGAAAC AGCCCTCTCC CACGTGGCAG
AGGCTCAGCC TGGCTCCCTT CCCTGGAGGG GCAGGGCGTG ACGGCCACAG GGTCTGCCCG CTGCACGTTC TGCCAAGGTG
GTGGTGGCGG GCGGTAGGG GTGTGGGGGC CGTCTTCCTC CTGTNTCTTT CCTTTCACCC TAGCCTGACT GGAAGCAGAA
AATGACCAAA TCAGTATTTT TTTTAATGAA ATATTATTGC TGGAGGCGTN CCAGGCAAAG CCTGGCTGTA GTAGCGAGTG
ATCTGCGGGG

SEO ID NO:1909: (Length of Sequence = 339 Nucleotides)

AAAATTAAAT CCAAATTITA ITAAGGATIT CAGGITACAT ACTICAAATT TCTAGAATG AATGGAATCA TITITGGAACT
GGAAAAATGG CATAAACACT GACGICCCIT AAAACTICAA TITITATAAAG AAAATTCTIC TGCAAACCAC ATCCCCTITA
TGTAACAAGA CTAGGIATTA TCTACACCTT CACITTGGCA ATAGCTATTT CCTAAAGAAT GAAAAAGATG ATTTTNCTAC
TTCAGITCAT TAAAAATGGG ATTCTATCTT TGAAGTICAG AAAAAGCTGC ATTTCGATGA ACTATGGGIT AAAAAAAAAA
GCACATAGTG TCTAATCAA

SEO ID NO:1910: (Length of Sequence = 439 Nucleotides)

GECCCAGGGA GCACCAATCA CAGCAGGGC TCTGGCCCAG GTGTCGGCAG CCCAGGCCTC CATTTGCTAA TGATTAATAC
ACTGTTTGGG CTGGCCAGTT TTTCATGCAT GCAGCTTGAC GATTGAGCAC AGTCAGGCCT TTGTATTAAA AATGAAAAAT
GAAAAAACAA ATTCAAAACC TATTCAAATG GGTTCTAGTT CAATTTGTTT AGTATAAATT GTCATAGCTG GTTTACTGAA
AACAAACACA TTTAAAATTG GTTTACCTCA GGATGACGTG CAGAAAAATG GGTGAAGGAT AAACCGTTGA GACGTGGCCC
CACTGGTAGG ATGGTCCTCT TGTACTTCGT GTGCTCCGAC CCATGGTGAC GATGACACAC CCTGGTGGGC ATGCCCGTGT
ATGTTGGTTT AGCGTTGTCT GCATTGTCTA GGAGTGAAC

SEO ID NO:1911: (Length of Sequence = 342 Nucleotides)

SEO ID NO:1912: (Length of Sequence = 380 Nucleotides)

SEQ ID NO:1913: (Length of Sequence = 361 Nucleotides)

GAGACAGAGT TITIGCICGIT GCCCAGGCIG GAGIGCAATG GCGIGATCIC AGCTCACCAC AACCTCCACC TCCGGGGTIC
AAGCCATTCT CCTGCCTCCG ACTCCCGAGT AGCTGAGATT ACAGGCATGT GCCACCACGC CCAGCTAAGG CTTTGTATTT
TMAGCAGAGA TGGGGTTTCA CCATGTTGGC CCGGCTGGTC TCAAACTCCT GACATCACAT GATCCCCCCG NCTCAGCCTC
CCCAAGTGCT GGGATTACCG GTGTGAGCCA CTGCCCTGGG CTCTCCAGTA CATTTTTAGG GGGACGATCA ATGAGGATTC
TCTTCTCTGA GTTACTGCAT GTGTTACAGT TTATAATCCT T

SEO ID NO:1914: (Length of Sequence = 409 Nucleotides)

GGGGGCCTTA CAACTAGGTA TGGTGGATAT TGCCCGACAG ACGGTTGAAT TTCTCTACGA AGAGAATGGT GGCATCCCAA
GAGACCTTTA TCTTCCCACC ATTGAAGACA TTAAAGACGA AGCAAACAAG TTCACAATTG ATAAAGTTCG AAAAGGTCTC
ACAGTAGTAA CCCGCTCTCC AGACAGCAAT AATGTAGCCA GCAGTGCTGT TGGAACTGCT CTGCCAAAAAT TTGCCATCCG
AGGGATGCTG AAAACCTTTG GGCTTCATGG AGTCGTCTTA GATGTTGATT CAGTGAATGA ACTGGTGCAG GTAGAAACGT
ACCTCCGCAG TGAAGGTGTG CTGGTGCGAT ACTTGGTATC CTATTTGACA TGTTGGGAAA GGGCCCCCAG CAGGCTACCG
AARGGACTT

SEO ID NO:1915: (Length of Sequence = 402 Nucleotides)

SEO ID NO:1916: (Length of Sequence = 382 Nucleotides)

GAAATGAGAC TITATICIGA AATTATTAAA AAGAACAGAG AIGCICCATT TGGCIGCATG CAGGGGGGG GGTIGGGGGG
ACAGAGGGGA GGACAGGGGC TCAGCCAGGG GGACCGIGIC TCITTCCCAC GCAGGACACT GIGCATGGGG CTCIGGGIGC
ATCIGCCCAT CIGICIATYG GCCIGIGIGI GIGILLACAG CCAAACACLA ACAGCIGGGT GCGTIGGCCIA
GCIAAAAAGGC AGGCIGGCTI TCIGGGGCCCC ACAGCIGGCG GGCIAGIATC CIGGAAGGTT TCACTIGGIG GCTIGGCCIA

GGGACCAGCA AGGGCTTGGN GTTGGAAGGG GTGGCTCAAG GAAGCCTCTT TCTCCACTCA CA

SEO ID NO:1917: (Length of Sequence = 375 Nucleotides)

GAGATTAAAA TAAACAACAC AAAATGTATT TAAATGAGAA ATTGAAATAT TAAAAATAAT ATTAGGTGAC ATTAAAACTG
TCATAGAAAT AAACTGTATA TACAACAAAT AAATCAATGA TTGTTAACTT TTTTAGACAG TTTGAATATC AGATTATAAT
GAATAGCATT ATTAGCCAGT AAAAAGAGCA TATAAAATTAT TTTAAAATTC CAAATAAAAA TATTTAAAAT TTTGAAATTT
TGGACCCAAA ATTATGTCAG TAATTTCATG AAAGTAGATC TCCAATAGGT CCTATATTCT AGACACTATG AAATGACATC
AGAAACCGTC AATTAAAGTG TACCCCACAA GTGATAACTA GCTACCATAC AAGTT

SEO ID NO:1918: (Length of Sequence = 315 Nucleotides)

AATATACAGT ATGATACACT GATGIGCAGA ATGTGATTAG TITATTAATC ATATGIGAAA ATATTAGIAG CIACATATGG
CCAGAATAGA TITTYCTCTC TACAAATGTA AGITAGTGIT GATAGAATTT GITATGCGAT ATTTGGTTCT TTGGTTTCAG
TCTCAATGCT TTCTTCTTGG CATTTCATTG ACTCGTAAA TTAACCTCAG CATCAATTTT CITTTAAATT CAACAGTTAT
TCAAATTGAT CGGAAATTAA ACTTGTATGT AGCTAGTTAT CACTTTGGGG GTACACTTTA ATTGACGGG TTCTG

SEO ID NO:1919: (Length of Sequence = 285 Nucleotides)

CAGAAGTAAA AGATTTTTAT TGTTCTATAG ACACTTCTGA AAAGAGATCT AATTGAGAAA ATATACAAAG CATTTAAGAG
TTTCATCCCC AGAGACTGAC TGAAGGCGTT ACAGCCCTCC TCTCCAAGGC TCAGGGCTGA GAACGGTTAG CATATCGAAT
GATCAGTAAA AACATGCAAA AGTGCAAAA AGGGGAAAA AGGTGCATTC CCCTAAGCTG AGGGGGNTGG AATTTCAGAA
CAGAGGWGGC AGGGTGGACA AGTACCAGGT GGCTCTCCCT TTCCC

SEO ID NO:1920: (Length of Sequence = 181 Nucleotides)

GCAGGITTAT TITTTTATIT ATGIATITNA ACIGACITAT TIKIGIATCC CACTAGAACA ATACATICAC AATATACTIG CAGAACIKTG CCTGGSGCAT CAGGGGAGCA GAGAACITTT CCAGTGAATA GITTITGAAG AAAGGAGTAA AATCTCCCCC AAACCCTAAA GGCATCCITT T

SEO ID NO:1921: (Length of Sequence = 351 Nucleotides)

AGACGGGGTC TCACTCTRTC GCCCAGGCTG GAGTGCAGTG GCGCAATCTC AGCTCACCGC AACCTCCGCC TCCCAGGTTA
AAACGACTCT MATGCCTCAG GCTCCCGAGC AGCTGGGACC ACAGGCACAT GCCATCATGC CCGCCCAACC TTCTGTACTT
TTWAGTAGAG ACGGGGTTTT ACTGTGCCAC ACAGGCTGGT CCCGAACTCC CGACCTCAGG CGATCAGCTR CCTCAGCCTC
TCAAAGTGCT GGGATCACAG ACGTAAACCA CCATGCGGGG CCCCAGTCTT TTCTTCAGAG GGCTCCTNAG CACCCCCAAC
CCCAAACCTG AGGCCTGTGA GAGTCTATCC G

SEO ID NO:1922: (Length of Sequence = 198 Nucleotides)

CCTCATCTGG ACACAGATGA TITGCCAAAG AAGCGGCCTG CCCAGATCTG CAAACCTTGC AACCCAGCAC TCTTGCATAT CTCGCTTAGC GTGTCCACAA CTGGGATGCT AGCTGGCGTA AAGATGCTCA CGCAGCCACC AGTGCCTCTG CCGTCCATAA GTGCAGTGTG ACTTACCCTC TGAGAGTGGC ATCTGCTG

SEO ID NO:1923: (Length of Sequence = 303 Nucleotides)

TIGATITICC TATGGTGTGA AATCCTTTGT TATTTTTCTA AAAAAATAAA ATTTAAAAAG AAAGAAAACT AAGGAAGAAC
AAGANGCTAT TTACCCAAAG TGAGCTINCA GITTTAGITT TGCATGGCTG TTTGACTGCC TTTCCGCCCT ATGAAAATCA
AGAAAATCTT TTTTAAAAAT GGAGTCCTGC TATTTTCCAC TCCTTGCAGA TAATACAAAT TCAGITTGTC AGGTTGGATG

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GREAGITIGG AGCIGIGATG GATCIGITGG CGGGTTTTGG ATGIGIAAAG AATGATATAT ATA

SEO ID NO:1924: (Length of Sequence = 231 Nucleotides)

GTCCTCCCTG ATTCTCAACC TITGCAACCT GCCTTCCGTC ACTGCTAGGT CCACGTAGGC TTAACCTTGA TCTTATATGT AGGACCGGTC TTCACCTTAA GCAAGAGAAA TGTAAGAAGT GNTTTCCCAA CTCAGTTGCT GGCCCAGCTT TGGCCTCGTG TTCCCCTTTCT GAGGACTGAC CTTTGGTATT GCTCTGGAGT CTCATATCCC CTTTGGCCCT AACTGACCAC G

SEO ID NO:1925: (Length of Sequence = 249 Nucleotides)

GITTITACIT AACCATICIA TIGITGGGAA TIGGGITICC ACTITITINI TATAGATAGI GGIGCAGIGA ACATITITAA ATAGCITITI NCITCAGIGI AATTATITCC NIAGAGAAG TIACCAAGAG TIGGITITACI AGITCAGAG GCITCAGGAT TINATGGCI CIINCIAGCG GIGCICIATI ATCCINNAGA AGACITGIAT TACITCCAGI GICAAGAAGG TIGCNCTICC ATGGAATGG

SEO ID NO:1926: (Length of Sequence = 367 Nucleotides)

TTTTTCTCAG CAAGGAACAG TCATGAGAAA GAGAATGCGT TCCTAGGGGG AGGTCTCTAA AATGGCCACT CTGGGACTGT
CTGTCTTATA TGGTTGTGGA TAAGGGATGA AATAAACCCC GGTCTCCCTT AGCGCTCCCA GGCCTATTAG GACGAGGAAA
TTCCCGCCTA GTAAATTTTA GTCAGACTGG TTGTCTGTTC TCAAACCCTG TCTCCTGATA AGATGTTATC GATGACAATG
CATGCCTGAA ACCTCATTAG CAATTTTAAT TTCGCCCCGT GCTCTGCCAT TTGCCTTGTG ATATTTTATT GCCTTGTGAA
GTATGTGATC TCTGTGACCA CAACCTATTC GTACANTTCC TCCCCTT

SEO ID NO:1927: (Length of Sequence = 231 Nucleotides)

CTTTTATTGG GGGCGGATAC CGCAAGGGCC CGCCCACGGT CAGGTTAGTG TTCTGCTCTT GCAGAGGCGC KACAGCCTGA CACCTCCACC TGCCACCCGC CCGGGGTTAG TGGAACATGC AAAGCTCAGA GGGTGGAGGC AGGGGTGGTC GCTGCTGAGA CCAGGGCTGN GTGCAACAGG AGGGTCAGCA CAGAGCCTGG CTGGTGTCCC TGGGCCCAAA GGGGGCTGGG G

SEO ID NO:1928: (Length of Sequence = 283 Nucleotides)

CCCCTIGCTT CCCCTGAGCC CAGGTATGTA ATTCCTACAC ACACTGATCG AGCTTGTNIG TGTGTGTATA TGTGTGTGTG
TGTGTGTNIT AATGTGACAT GCATGTACTG ATCCNGAGAA GCCTTTATAC CAAGAATAGA GCTGGGATCT CAAGCCCCACC
CTCCCCAAGAT CAGACAGCAG AGTGAACCAG GAGGCCACGA CAGGCCTTGT GTCARATGGC AGACGNTGCA GCAGGAAGCA
GAACCACGGG ACGGGGRNCA TGGGATGCTA TKGGCAGCCA GCT

SEO ID NO:1929: (Length of Sequence = 287 Nucleotides)

CTAGGAAGTA GGGAGAGAT TTACTAAGTA AGGAGAGAA GGAAAAAGAA CAAACATGGA ATATGNTCAA GCAAATAACT
TCCAACAGAA ACAAGANGAT ATGTTTTAAA ATATATTTCC CCTGCCCAAT AGTAAAACTT ATTTCAGGCA CAATGCATTA
CTGAGGIGAA ATTAAAGTTA CATAAAATTG AAAACATCAC ACTGGANAAC ATTTCATGGG GCTCAACTGA AGGTGGCATA
GTCCAGGAAG GCATTTGGAC ATGTATGGGG TGTTTTCTTG TTGCCCC

SEO ID NO:1930: (Length of Sequence = 357 Nucleotides)

ATGGAACACT ACTGCAACAG CTCCACAGAC CGGCGGGTTC TGCTCATGTT CCTGGACATC TGTTCAGAGC TGAATAAGCT
CTCCCAGCAC TTTGAGGCCG TGCACTCTGG CACCCCAGTC ACCAACAACC TCCTGAAGAC CTCAGAGCAA CACCACCTCA TGATGTGGTG AACCACCTCA GCTGTKACGA GGCCCGGAAC

ACCCTAAATA TATGGTACCT CAACAAATAA CITAAAGATT TCCGTGTGGC GTGAACCATT TCAATTTGAA CTAATATCCT TGAAAAAAAT CACATTATTA CAAGTTTTAA TAAATACAGT AGAGAGCTGG CATTTTTCTA AATACTGGAT TTCAGATCTG G

SEO ID NO:1943: (Length of Sequence = 351 Nucleotides)

CAACTCAGET TAGCAACTGC AGGAAAACTT TCTTCATTTT CACTGAATTT TAAAGAGAGA ATCCTGTCTC TATTTCTCAG
AGAAACTTAG GTGAAAAGTA AAAGAGAGGC AAAATCTCTT TCCTTCATGA GATACTTTTA TTTTTATCTC TTTCTCTACT
CATGIGCTTA ACTGGTGAAA TGATTCIGTA GAAATAGATC CTTCTGATTC TGCATCTCAT TTCCTTATGG CAACTACAAC
AGGAGGAATC CAGCTGGAAA TGCCACTAAC CCCACATCCA GCACCTGAGA GAGGAAGCCA GTCGGAGCGC CGTGCTGGGC
TCACTCACTC TGGCCTGCGC ACTGGGGTTG T

SEO ID NO:1944: (Length of Sequence = 406 Nucleotides)

GCCCAGGCTG TCTCAGAATC TTGATGGGT GGTCATTGAG CTCCTCTTCC GCCAGAGCAA GATCAGTGAA GTCCTGGGAG
GCAGTGGCTA CAACTCGGAC CGGCTCTGCC TGCCCTACAT TCCTCAGCTG ACAGATGAGG ATCGTTTATC CAAGAGGAGG
AGCATTGGAG AGAACATCTT CCCTGAGGAT CCCGAGGATG GTCTGGTGAA GACCAACATG GAGAAGCTGA CCTTCTATGC
CCTCTTAGCT TCAGAAAAAC TTGATCGTAT TGGCGCCTAC CTCTTTGAGA GGCTCATCCG TGACGTGGGT CGNCATCGAT
ATGGGTACGT GTGCATTGCT ATGGAGGCTT TGGACCAGCT GCTCATGGCC TGCCACTGCC AGAGCATCAA CCTCTTCGTG
GAGAGC

SEO ID NO:1945: (Length of Sequence = 362 Nucleotides)

TCAAATTGIG AAATTNAGAA TTCIGCTATG ACAAGTGGAA AATTGAGAAA AGACGCAGAG CCACTTTTIG TNATCGIGTA
GGIGACAAGG AGICTCCCAA GTATATCCIG CTAATAAGGAG TAGCTCTCAA AAGITAATCI CAATAAAGCC TCCTAAAGTC
TCIGGCAAAG AAAACTGCIG CAATCCCTIG TGCAATTCIC CAGACTAAGC TGTATGGGGG AAGCCTACCT TTTTTCAGCC
CGAAGTTCAG GAGACTGAGG ATGTAACTGG GGACATGATC ATTGNTTCAA AGGTGATTGC TTAAGTATCT TAAAAATGTA
TAGAGCTAAT CTGAGTACCG CTTAAATTCA AGAGCCGTGG CT

SEO ID NO:1946: (Length of Sequence = 408 Nucleotides)

AACCICINAC CCCCAGGITC AAGCAGICCI CCCACCTCAG CCICCCGGGI AACTGITCIT TGIAACTCTC TCATCATCGA
GGCTATATAT TAATAGACAT GGTATTAAGC CCACACGAAA CATTCAGAAT TAGAATTGGA TTAAGAAGAC GCGTTTTGGC
ATCACGCTGA CIACTCCTCA TCTCCGTCCI CGGGGAGGGI GATGCCAGCG TGGGAGCTCTT TGGAAGGCCT ATCAATCACA
GGTGCGCTAA AATCAAAAGG TGGGTCAGTA GGTTAGGGAG GCNGGCGCGA AAGGAGATGC CAGCGGGTGT TAAGAAGGAT
ATGGTCAGAA GAGCTCTTTG TCTCCATCCA CGGGGCCTCT GCTCAGCCCG TGTTGTCTCG GTGAGTAATT CGGGAGCAGT
GCACGGCT

SEO ID NO:1947: (Length of Sequence = 426 Nucleotides)

CCATTIGACA CIGITACIAT CIGCAACAGI TCTIGCAGIA GAGGAIGCAC TICAAAGIGC ACIGCITTAC TGICTCACTG
GAATICIAAA AATCIAAGCI TIATCITITI AACATTAAGC TGIGIGGGAA TGIAGCAACC TCCIGGGIGG TGGGGIGGGG
GGCATCITCA ATTATITAGG TCTCACIGGA AAGIITGAGA TCAGAGITIG GTAGGIGGIG TAAGGGGACA ATGAGIAAGG
GAGAGAAAAT ACAGGACTGA CITGGGGCAA AAAACGCCTG ATAATAATIT GIGAAGCACA TTITCAAACT CATITATICC
TTACAAGGAT CCTAAGAGGC GGGTATTATG TCCAGGITAT ACCIGGAGGC TTAAATTGAA GGAACATCIN CAAGGGCACA
CAGITTAATG AATGGCTGAG GTAGGA

SEO ID NO:1948: (Length of Sequence = 349 Nucleotides)

SEO ID NO:1949: (Length of Sequence = 378 Nucleotides)

TTCATTCCTG ATTTATCCC AGCTGTCGGG GATATTGATG CATTCTTAAA GGTCCCACGT CCTGATGGAA AGCCTGACAA
CCTTGGCCTA TTGGTATTGG ATGAACCTTC TACAAAGCAG TCAGACCCTA CGGTGCTCTC ACTCTGGTTA ACAGAGAATT
CTAAGCAGCA CAACATCACA CAACATATGA AAGTAAAAAG CCTAGAAGAT GCAGAAAAGA ATCCCAAAGC CATTGACACG
TGGATTGAGA GCATCTCTGA ATTACACCGT TCTAAGCCCC CTGCGACTGT GCACTACACC AGGGCCATGC CCGACATTGA
CACGCTGATG CAGGAATGGT NCCCGGAGTT TGAAGAGCTT TTGGGCAAGG TAAGCCTG

SEO ID NO:1950: (Length of Sequence = 357 Nucleotides)

TCACTAACTT TACGAATGAA AGAAAACAAT TCCATCCCTC TCACAAAAAG GACATCTTT AAGCTTTCCT CCCAATCTAA CCTCCATGGG ATCTCAGAAA TTCCAATTCT TATAACTCAA ATCCCCACAG TGGTGTAGAT GCATTAACTC CCCGGGGACA GCAATCTGAG GCAGGCAGGT TCATTAAACA AACATGTTCT GTGCCCTCTG GCAGAGAGGG CAGCAGGACA TGCACTGCCC CTGAGCCAAG CTGTGCCATG GGCAAGGACA TCAAGTAGCT GACAACGGTC TGTCCATCTC AGCTGGGGCA GAGGGGCCAG TTCAGCCTTG AAACAGCAGT TMGGGAGTGT CTCAGCT

SEO ID NO:1951: (Length of Sequence = 336 Nucleotides)

CTATCICCCC AAATCIACGI TTCACCATTI GIACIGITAT TITTITAGCC CAAGCCACCI TIATGICACI CCIGGAACAT
AATAACIGCI TICTCACTCA TCICCIACAT TIINACCICI TATAATACAG TCCACCITGI ACCGAGCAAC AAGAGITATC
TTTCIGAAAT GCATATTAGA TCATGICACA TCICTACTIG AAGCTCICIA AAGATTICIC ACIAAAAGCG AAGTCTAAAA
TTTCCACCCA GACCTATAAG GNCCTTAAAT GATCITACCT CICTACCTAC CICINCGATC TTACCTATCI TCAACCTCGG
TTCTATTTTC TATATC

SEO ID NO:1952: (Length of Sequence = 413 Nucleotides)

CAGTATGIAA TITAATCAGC AAATGCCCCA TITCCATCTC TACCGGAAAG CITTCAGACG CATTCCCAGA TCAGACAGAG
GACTAGGGIT AAGGCTGGGA ATGAAACACC AGCTAGTATC CCAGTGAGCT TTCCCAAACA CACATACACA GCAAGTCAGA
CTAAACAACG TCCAACTGAA GACTCACCTC AAATACTTAG ACCTAAGATT CACGTCCAGG CTCTTTCAGA TACACCAGGT
AAGTAAGCAC TTGGCATTCC TATCTCAGCC ATTCACTTCA CAGAATCTIT TGGGTGCCTA CTGTGTGCCC AATACTGTGC
TTAGTGGTAC TTGCCCTCAG CAGGAAAAAA AATTAAAAGT GTTAAATGTT ATGAAGGAAC AGATTGGTAT AGGAATCACA
AGGCATTCAG GTC

SEQ ID NO:1953: (Length of Sequence = 382 Nucleotides)

GITTCACTCT TGITGCCCAG GCTAGAATGC AGTGGCGATC TTGGCTCACT GTAACCTCTG CCTCCCGGGT TCAAGTGATT CTCCTGCCTC AGCLTCCCTA GTAGCTGGGA CTATAGGTGC ATGCTGCCAC ACCCAGCTAA TTTTTTTTGTA TTTTTAGTAG AGTGAGGTT TCGACATATT GCCCAGGCTG GTGTTCAACT CCTGATCTCA AGTGATCTGC GTACCTAGGT CTCACCATCA TGTTTAGGGC GTGCGGATTG CTGGCCTGAG CCACCGCACC CTGCCTAGAA CATGCTTTTN AATAGTGTCT CTAACCATCA TGTTTAGGGC

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CITAGIGCIT ACCTCITAAA GAAGGGCIGC TGITGAGGAT TCCNTGAGAT AGIGTTTGAA AA

SEO ID NO:1954: (Length of Sequence = 389 Nucleotides)

GGAAAAGCG GACCCAAACA GTGGTGCTGG GGAAATTTGT TCCTGTTCCC TTTGGAAGGC TGAGTGGGG ATGCAGCACA
GGAACAAGGC TTGGACGTCA GAGGTCTCAT CTTCACTGTG ACAAAGCATA AAGGACTTGG GGTTGAGCGT GTGINTGGGC
TCAAGTGACC ATGCAAGTNC TGTCACCTCC TTCCTAAGAC CCCATCCTTC TCCCAAGTCC TCCACAAGAG CTACCTTCTT
CAAAACAATA ACAGAAACAC ATCAAGNTIN GCGTCACTGA AATTGAAGTT CTGAATTCTG CCGTCACCCC AGCAACAGTG
CCAGTTATGA TGAGACACTT GACCCAGCAC TTGGGTTGAT GTCTTTGGCT GTTACCGTGG CACCTAGGT

SEO ID NO:1955: (Length of Sequence = 277 Nucleotides)

GCCTCTAACT CCACGGCTCA AGTAATCCTC CTGCCTCAGC CTCCTAAGTA GCTAGGACTA CAGGTGCACA CCACCACACC CAGCTAATTT TITINCTITIT TGATTITTIGG TAGAGATAAG GTCCTACTAT GTTGCCCAGG CTGGTCTGAA ACTCCTGGCC TCAAGTGATC TGTCTTAGCC TTCTGAGTAG CTAGAACTAG TTTTAATGAC CNAAAGAATT ATGTGTTCAC CNGTGATTITT ATGTGTTTTIG TTAAGACATT CAGAATTTAG AGAAATG

SEO ID NO:1956: (Length of Sequence = 380 Nucleotides)

GTGTAATGTT CTGAGGGTGG CGAATGCAGG GGCGCGTTCC TCCCGCTGTC GATCTGGAAC ATCITCTCGC CAACAAAGAG
CAGGGTGAAG ATGAGGGCAA GCTGGTAGAC AGCATGGCCC AGGATGTTCT TCATCATGGT CCTGGAGATG AGCGGCTTGT
TGCGGCCGTA CGGTTTCCTC AGCAGCAGG TCTCCGTGGG CGGCTCAGTG GCCAGTGCCA GCNAGGCAAA CGTGTCCATG
ATGAGGTTCA CCCAGAGCAT CTGCACGGCC TTCAGAGGGG AGTCCTGCGT GATGCAGGCG CCTNTAAAGC CACAATCACG
GCCACCACGT TGACGGTGAA GCTGGAACTT CAAGAATTTN GAGATGCTGT CATAGACGTT

SEO ID NO:1957: (Length of Sequence = 328 Nucleotides)

TGTGATGTT CTTTTTTAGC CTGTTGATGT GGTGAATTGT ACTGATTGAT ATTTGAATAT TAAACTGGCT TTGCATCCCT
AGAATATACC TCACCAGGTC ACTGTGTACT AGGTTGGTGC AAAAGTGCTT GCCATTTTGG ACCATGAATT TTGAATCATT
AAAACTAGGC TCAAACACAT CTGTATTAAT CAAAGTAAGA ACCATTACAA TCAACACAAT TTTGCCAACA AGAAATAAGT
TTGTTTACTC CTGTAGCATA AAAATCCGTG CTTTGAGATT CGAGGAACTT TTGGNAAGCA CTTTCTGCAT CCTGCTGGTT
GTGGAAGC

SEQ ID NO:1958: (Length of Sequence = 254 Nucleotides)

CTAGAAAGTA TCTTCTCTTT ATTTAAGTTA AACAATTTTC AAGGATGGIT TCCATCTATA AAATGACAA AGTACAAGCT CTGTACAGCA GTTCTTTTTA AAAATCAACT GGAAAAAAAA ATTACCAAAC TATATTTTGA ATTTGCAAAA CATACTCACA GATACCATCA TCTGAGCTTT TATGAGGACA TAAGAAAGGN CCACCACAGA GAAGACAACT AACTTCGGCA CGCTTTGCTC GAAGGGCTCT TAGG

SEQ ID NO:1959: (Length of Sequence = 259 Nucleotides)

GTAATACGAG AAAAATCACA ACAGAGTAAT AAAGATATAA AACTITCACA ATTAACACTC ATCAGTGTGA TAAACTAAGC
CCATGTAAAA GTAAAAATCT CTCACAGTTA ACAAACGTCT TTACTITCAC TAAGAAGGAA CTGAAATTAA AGTCCTTAGT
CACTTTGGAG GTGGCTGCAA AAGCTCACAA CATAGTTGAT CCTTAAAATA ATTATGAAGG GCAACCAGTG CTGCCTTTCT
CTACTYAACC ATGCAACTG

SEQ ID NO:1960: (Length of Sequence = 329 Nucleotides)

GACIACAGET GIGCCCCACG ATGCCIGGCT AATITITAAG GITTITGIAG AGATGGGGTC TICCIATCIT GCACAGACIG
GIGIGGAATI CCIAGCICAA GCAATITICC TGICICAGCC TCACAAAGIG CIGGIATIAC CCGIGIGAGC CACCGIGCIC
AGCCCAGICA TGIATITCIA ATIATIGIAT TIGIGAACIA ATCIATGAAC AACAAAAACA AACAAACAAA CAAAAAGGGT
GGCATITCIG GGCCACCAGG GAAGGIGGGA TIGGGGIIGC AGCIATITIC AAATIATATI AAAAGCAGGA TCCCAGITAG
AGCGCTATC

SEQ ID_NO:1961: (Length of Sequence = 282 Nucleotides)

SEO ID NO:1962: (Length of Sequence = 328 Nucleotides)

TECTEGIETO CCTECTETCA TCCTCAGGAG GCCAAATCAG TCCCAGCCTC TCCCACCATC TTCCCTGCAG CGATTTCTTC
GAGCTCGAAA CATCTCTGGC GTTGTTCTGG CTGACCACTC TGGTGCCTTC CATAACAAAT ATTACCAGAG TATTTACGAC
ACTGCTGAGA ACATTAATGT GAGCTATCCC GAATGGCTGA GCCCTGAAGA GGACCTGAAC TTTGTAACAG ACACTGCCAA
GGCCCTGGCA GATGTGGCCA CGGTGCTGGG ACGTGCTCTG TATGAGCTTG CAGGAGGAAC CAACTTCAGC GACACAGTTC
AGGCTGAT

SEO ID NO:1963: (Length of Sequence = 277 Nucleotides)

CCAAGAGACA CCCCCGCAC TCCTGTGCCC GAGCTGTCTC ATCTGTGATT CACAGTCTGC TCTTTCTGGC TGCTTGTCGT
GAGAAGTGAT TTTNAACCCC GAGGTTAGAA AGGGAGCTAT TTTTGAGCTG CTTTTTTGTTA AAAGGCAAAT TTTCTGCTGG
GGACTGGCTT TACCCCGTCT ACCTAAATCA TTTCTTACTG CCTCCTGTAA CAGTCGCCTT TTGTGTTCTG CTGGNATTTG
TTTGAACACA GTCCACAGGT TCAGTGGTTN CATCTCT

SEO ID NO:1964: (Length of Sequence = 230 Nucleotides)

CAATGCAACC TITTAATTCC AAGCAGAGTC CCCCTCCCCC AGCATGGTCA CACACAGT GGAAAGGGAT GTCAGGGTCT GGGCAGGAGC AATACCCAGA CCTGGGCAAA AATATAGATA TCATTATATA CACACGTGGA CTGGAAAGAA GTCAAGCTGG GGGTGTAAGG TAGGGCAGGG GCAGGTGAGG AAAGCAGCTG GGGGGCCCC AATAAATTAC ATTCTTGAGA

SEO ID NO:1965: (Length of Sequence = 299 Nucleotides)

CGCCGTGGAT CCCGAGAAGG CACAGCAGAT GCGCTTCCAG GTGCATACCC ACCTTCAAGT GATTGAGGAG AGGGTGAATC AGAGCCTGGG CCTGCTTGAC CAGAACCCCC ACCTGGCTCA GGAGCTGCGG CCCCAAATCC AGGAACTCCT CCACTCTGAA CACCTGGGTC CCAGTGAATT GGAAGCCCCT GCCCCTGGGG GCAGCAGCGA GGACAAGGGT GGGCTGCAGC CTCCAGATTC CAAGGATGCA GACACCCCCCA TGACCCTTCC AAAAGGGTCC ACAGAACAAG ATGCTNCAT

SEO ID NO:1966: (Length of Sequence = 320 Nucleotides)

GTCCCTGCAC ATGCGTCTGG CAAGACGGGT CAGCTTTGTG GTCTGAAGCA GGAAAGTTTG TCTGTNCTTA GCCAGTAGCT
TGGCCCTGTT GGCGCTGGTT GTGTAAGGAG AGAGACTTTG AGCTTCAGGT CTGGATAAAT NACCCCTTGA GTGTGGCTCC
GTGATGCCCCC GAGTGGCCCCC CTCTAAGCTGA GTTGGGGACCT TCAGAAGTCCC ACAGAGGCGG CACTGCGCATGT TAGGTGGGCC CCAGGCATAC CACTGAGCAG ACTGTGTGGT GTGGCAACTC TCACAAGTCA

SEO ID NO:1967: (Length of Sequence = 296 Nucleotides)

GCTCTGCTGG CCGTGCAGAA GCTCATGGTG CACAACTGGG AATACCTTGG CAAGCAGCTC CAGTCCGAGC AGCCCCAGAC CGCTGCCGCC CGAAGCTAAG CCTGCCTCTG GCCTTCCCCT CCGCCTCAAT GCAGAACCAG TAGTGGGAGC ACTGTGTTTA GAGTTAAGAG TGAACACTGT TTGATTTTAC TTGGAATTTC CTCTGTTATA TAGCTTTTCC CAATGCTAAT TTCCAAACAA CAACAACAAA ATAACATGTT TGCCTGTTAA GTTGTATAAA AGTAGGTGAT TCTGTA

SEO ID NO:1968: (Length of Sequence = 311 Nucleotides)

ACCCCCTTCA CTCCCTCCCA CCASCTCTGC ASCCASCCTA TGGCAATTAT ATTTTAAGAG GTGTTCCCAG GACTTTTGGG
ACCTACTAAA ACAATGATGG TTATTTTAGA TGTGATGATT TATATTTATG TAGAGATATT TCTGGACCAC TCAAGCTCTT
CGATACCAAA ATCAGGAGCA TCTTGGGATT TATTAAATTA TGTAAGAAGA TAGCACAGAT ATCGGGATAT TATTGTGTGA
AAATGCTGCT TTTACTTTGA TGTGATCTCA TTGATGTACA CAACCAAGTT CCAATAAAGT GCTAGAATGT G

SEO ID NO:1969: (Length of Sequence = 266 Nucleotides)

CAATAATAAA AAGGATTATA TTCCTGATAC ATGCAATATG GGTGAACCGT AAAAATATCA TGCTGAGCAA GAGAAGCCAA ACACAAGAGA ACATGTTGTT ATGATTTCAC GTACATGAAA CITTAGTAAA GACAAGTCTA ATCCATAGTG ACAGAAAGCA AATCAGTAAC TGCTGACAGG GGCAAATGAG GNGATGATCT CAAGGGNACC TTCTGGGGTA AGACGCTGTT CTGTATCTCG ATCGNATTGG TGGTCACACA AGTGAA

SEO ID NO:1970: (Length of Sequence = 317 Nucleotides)

CTCGGGAGGC TGAGGCAGAA GAATGGGTTG AGGCCAGGAG GCGGAGGTTG CAGTGAGCCA AGATTGCGCC ATTGTACTCC
AGCCTGGGCC ACAAGATTGA AACTTCATCT CGGGGAAAAA AAAAATGAGC TAAATACAAG AGATGGTAAT GCAGGAAATG
AGAGAGAAAG AAGCTATAGA ATGCACCATC AGTCTTTGCT GAGAGGAGAA GCTAGGACAC TTATGCGCAT GTNCCTGTCT
GCCTTCCTTC CCGTCCCGCG GATGGTTGGA GCAGGTCTTT GTTTGCTGCA GAGCATGCCA TGTCATCCTC CTTGTCT

SEQ ID NO:1971: (Length of Sequence = 263 Nucleotides)

GTGCATACTG CTGAGGCGGC TACGCTGGCA GGGTAAGCAA AAGAAGCACC CCAGCCTAAG TTTACAGAGA ACCAGGACAT CATTTTGAAT ATAACTTAGT TCTAATAGTC AAATGGCCAC TCAAGGTGAC AAATAGGAAC TTCAGTGGTC ACCCCTCGGA AGCAAGCTTT CAATGTCCCC CACCTGTAGA AGGCTGAAAA ACATCCTCCA AAGATAACAG GTTCCAATCA CTGGAACCTG TATTACTTAT TACCATTAAA TAT

SEQ ID NO:1972: (Length of Sequence = 295 Nucleotides)

SEO ID NO:1973: (Length of Sequence = 243 Nucleotides)

SEO ID NO:1974: (Length of Sequence = 304 Nucleotides)

GGATGAGATG ATCGACGTCA TCGGGGTGAC CAAGGGCAAA GGCTACAAAG GGGTCACCAG TCGTTGGCAC ACCAAGAAGC TCCCCCGCAA GACCCACCGA GGCCTGCGCA AGGTGGCCTG TATTGGGCA TCGCATCCTG CTCGTGTAGC CTTCTCTGTG GCACGCGCTG GGCAGAAAGG CTACCATCAC CGCACTGAGA TCAACAAGAA GATTTATAAG ATTGGCCAGG GCTACCTTAT CAAGGACGCC AAGCTGATCA AGAACAATGC CTCCACTGAC TATGACCTAT CTGACAAGAG CATC

SEO ID NO:1975: (Length of Sequence = 233 Nucleotides)

CCITCTCCAT CACCCTTGGA CCCTCTCTGA GIGGTCTCTC AAGGCACATT TATTTTCTCT GCTGCAACCT ACCAGATCTG
ACATCCACCT CCCCCAGCAC CCATGGGCCA AGGAGGCCTG GGGCAGCCAA GGGGAGTTCC AGGACCAAGC AAGCAAGAAA
CCGTTCTTTG AACACATGGT TAAGCTTCTT CCAGCATGGC CCTAATTCCC CTACCTGCCT AAGCCAGGGG AGT

SEO ID NO:1976: (Length of Sequence = 162 Nucleotides)

AAGIGITACA AGCCCCAGAA TECTGCCCGG CCTGCCCTGC TGGGCGGACT GTCTGTGTGT CTGINTCTCT GGCGTTCCAC CTCCAAGCCT ATACCAGCTG TGTACAGCGC CATCTCTCTG CCTTCTGTTG CCCCTCACTC ACCAAACACG TGTATTTATA GC

SEO ID NO:1977: (Length of Sequence = 270 Nucleotides)

GECTGAATTA AGAGCATCCA GAAAGCCCAG GCCCTCCATA GGCTGTGGCG GGATGATCTT CACTITGATC TCTTTGGTGG
CATTAGGTGT TGTGTTGAGT GGCTTGTATT TCTTCTCTGC AGGGGGAGTG GCATCTCCTG GAGCAGCTAC GTTGCTCTGA
CGTTTGAGGG GGATGGGTTT AAGGTTGTAC TTGTCAGAAA CCACCACTGT GCTGGCATTC TTCTTCACAG GCACCAAGGA
TGGTGTCTCC AGCTCTAGTC CAGTGGAACG

SEO ID NO:1978: (Length of Sequence = 167 Nucleotides)

TIGCAGGAGI TGCTGATATT TATTCAAACG TCATCCATAC AATAAAGAAC TCINCITITA AAATTCCATT TACATCAGCA GTTAAAAAAA AGTGACAGTG GATGAAACAT GANGCTGTAA AGTGCCTTTA TGCGGGAAINC AGCCACGCCT GCCTCCACTG TGCTGGG

SEO ID NO:1979: (Length of Sequence = 346 Nucleotides)

CATCATAGCA ACAAAGGCT ATGTACTATA CTCAGGAAAA CCATTTATTT GCACTGGAGG CAACTGTTCT TGAGAGAGGA
AAAGTAAATT GTCCAAGATG TAACATCTTA TAAATAGCAA AGCAAGGATG AAAATTATTA TATTTNACTA AATCAGTATG
AGAATCCTGA TTCTTCATTA TTATATCCCC AACACTCTAT CAGTTTGTTG AACAAATCAA CAAATAAGCT TGAATAAAGG
MTCCACATCT CAATTCTCCT CCACCATTCT ATATTGCCCT TCATCCCTAC ATTAAAATCN TTATTTCTGC TTTTTTTCTT
TAACAATTTA TCCCTAAAGT AACTAG

SEO ID NO:1980: (Length of Sequence = 174 Nucleotides)

CACAAACTGA CAGAGGAGAC AGGAGGAATT TAATATTACA TGCTATAATG ATATTTATCT CACAGTTTAT ATTTCATTCA TTTATATTAT TTTTTTAAAA GGTTTCTTTA TCAGCTACTA AACATCTCAG CAATTTGGTG TGCATAGCTC TAGATTAAGC AACAAAGAAT TGTA

SED ID NO: 1981: (Length of Sequence = 276 Muclestides)

TGENICACIC ATAAGITITC AGIGGITAAT TACIACAGIT TAAGAAGACG TGIGATITAT TITTAGATCI GACCCAGCAG ATCATACCIN TNCNITGAAT TACATGGICI TCIITIGGCT TCIAAGATGI CACACICCIG TCIITAGIGGC CACIGCICCI CAAGCCCCCT TIGCTAGCTC TICCTCATCT GICCAGCCCT AACCTGACCG TGCTATGTAA GTCTTCTCCG TNITCACCCC CINCCNGGT GACCGTTATA CINCCAAACC TACAGG

SEQ ID NO:1982: (Length of Sequence = 288 Nucleotides)

GCTGCAGAGA GGTTGINICC AGGAGCAGGC TTTCCCGCTC GGGATCCAGG TCATCCCCCA CCAGAGAAAT TTCACAGCCA
TCCAGGTTGT GCACAATCTC ATCCGACATG CGTGINTCTG TCACTGTGCC CTGCCAACTC TCATCCTTTT TGGCCTCCAC
CTGGTGAGAA ATGGAGCAGG TGATTTGAAG ATCAGGGAAC AAAGGGACGC CGTTGGTTCC CTCAAAGTCC ACAGCTNGGC
GGGCAAAATG AGCAGTGCCA CTCAGCAGGA TCTGGGGGGC GTCAGGCT

SEO ID NO:1983: (Length of Sequence = 273 Nucleotides)

CACAAGCCAC TITCAGCCTC CAGTGGGAAG GCTCCAGCCA CACGCCGATA TITCGTCCTG CTTCCCGTCA TCTCATATCT
AAAAGTCATG GCTTAAGTTA GGCAATAAAA CCTGTGGCTT TAGGCATCTT TAGTAAAAAA GCTGAACAAA TCCCAAATTT
ATTCCCATTT TCTTGAGAAA TAAACTTCAT AAAACAACAG ACAGCTGTCA TGATTACTGA GTTTTGGCTG ATGGCGAAAT
AATTTTTATG TAAGTATACT GAATAAACAT ACA

SEO ID NO:1984: (Length of Sequence = 221 Nucleotides)

GAAGAGGCTG CTCTGGCCTG GGACACCCCC ACTGCTCTCA AGGAGCTGGC ATCTCAGTGG CCTCTNAGCC CAGCCTGAGC
CCTGTGGGAG TNCGGGGGCA GTGACTGGAA TGTNCTGCTG GGCAGGCTGC AGCAGCCGAG GTGGCCCCAG GGCAGAGGAG
TGCAGGGGAN CTCATGGGTG CCCTATGCCA CCCCTGGTGC TCACTGGGCT GCTGATGCCG T

SEQ ID NO:1985: (Length of Sequence = 197 Nucleotides)

TTGCTACCAT GAGGGAAGTG CTCGTTGCTT GGCCTACAGC AAGTNATACA GCCTGCGAGG CACAGTCCCC AAAAGTCTAG CTGCAATTCT ATTGGTGGTT TTCCCCAAAC AGCAATAACA AGATGTTACC TGGAAGCACA CCAGAGCCAA TCATGACTCA GGCCTGTCTA GATGTTTAGA TGTCTGGAAA TATATTT

SEO ID NO:1986: (Length of Sequence = 268 Nucleotides)

SEO ID NO:1987: (Length of Sequence = 282 Nucleotides)

GICCICACIG TAAACAAATG AGGATGGAGG ACACIGAGAG GNICAAATAT GAAAGGCAGT ATGGGGAGIT AGAGCCACTC
GICTACICCT GIAAAGAGCA TGACTACICA CAGTCITICT AGCGGGTAGT CACTCITICA TITAACAAAT ACITAGTCCC
TGCAATGATC TAGGATAATA ACTCAACAGT GIATATCAAG AGCCITTAAA AAGITATACC TGGCCGGGG CAGTGGCTCA
TGTATGTAAC CCTAGCACTT TGGGAGGCCA AGGCAGGCAG AT

SEO ID NO:1988: (Length of Sequence = 226 Nucleotides)

**TURGEGGGT TOGGTCTCTC REGRAGITAG GCCATARTIT CTGCAGGTTC AGTGATTAAC TIGGALICCAT CCCATGCTGT
CTTGAACTGT TCAGGAATGG GAAATTCTCT ATAATCACCA TCCTGAGGGA TAAGTATGTT CATTTYAGAT GAGTTTGGCGC
TCACGNTCTC ACAGTCTAAT GCATCTTCAC TGAGGTATAT GTGGCAACCT TCTGTCTTAT TAATGG

SEO ID NO:1989: (Length of Sequence = 193 Nucleotides)

CTCCCTGTAG GTCATGTCCT TGAGAGTTAA AAGATGGGTT GAGTAGGCAG AGGTCTCAGG CACCGGGGAC AGAAGACAAG GACATTCAGC ACGGGCAGCC ATGCTCTTCC CAGCACCCAG AAAAGGCCCCA GGGCCCGGGAC TCCTGGGTGT GGTCATGAGA AGCGCCTCCG ATTCAGCCTC TTCTCTTCTT GTG

SEO ID NO:1990: (Length of Sequence = 223 Nucleotides)

SEQ ID NO:1991: (Length of Sequence = 385 Nucleotides)

GCAGAGAAAG TGCCAGGCAT CAACCCCAGT TTCGTGTTCC TGCAGCTCTA CCATTCCCCC TTCTTTGGCG ACGAGTCAAA
CAAGCCAATC CTGCTGCCCA ATGAGTCACA GTCCTTTGAG CGGTCGGTGC AGCTCCTCGA CCAGATCCCA TCATACGACA
CCCACAAGAT CGCCGTCCTG TATGTTGGAG AAGGCCAGAG CAACAGCGAG CTCGCCATCC TGTCCAATGA GCATGGCTCC
TACAGGTACA CGGAGTTCCT GACCGGCCTG GGCCGGCTCA TCGAGCTGAA GGACTNCCAG CCGGACAAGG TGTACCTGGG
AGGCCTTGAC GTNTGTNGTT AGGACGGCCA GTTCAACTAC TNCTNGCACG ATGACATCAT GGAAG

SEO ID NO:1992: (Length of Sequence = 312 Nucleotides)

GGCTIACAGG ACAGAAAGGT CCCTICTCAC AGITIGGGAG GICCGAAGTC TGAAGIGAAG CIGTCAGCAG GGCCACACCC CCICIGGATG CICCAGGGGA GGGICCTTIG CCICITCCAG TICIGGIGGC TCCAGGCATT CCTIGCTTIA TGGIGGCATC ATTCATCICT GCICCGGCCT CACGIGGCCT TCTCIGTGIT GTCAAATCIC CITCTCTGTT CTCTIGTAAA AACACTCGIC ATTGGGATT AGGGATTT AGGGACCCC CCAATCTAGA TGGICTCATC TTGAGCCTTT ACTTTAGITA CCTCTGCAAA GA

SEO ID NO:1993: (Length of Sequence = 429 Nucleotides)

CTGTTTTTAC TCGACGAGGA GAAGACCTTT TCATGTGTAT GGACATACAG CTCGTTGAAG CACTGTGTGG CTTCCAGAAG CCAATATCTA CTCTTGACAA CCGAACCATC GTCATCACCT CTCATCCAGG TCAGATTGTC AAGCATGGAG ATATCAAGTG TGTACTAAAT GAAGGCATGC CAATTTATCG TAGACCATAT GAAAAGGGTC GCCTAATCAT CGAATTTAAG GTAAACTTTC CTGAGAATGG CTTCTCTCT CCTGATAAAC TGTCTTTNCT GGAAAAACTC CTACCCGAGA GGAAGGAAGG GAAGGACTN ATGAGATGGA CCAAGTAGAA CTGGTGGGAC TTTNGATCCC AATCAGGAAA GACGGCGNCA CTNCAATGGG GGAAGCATAT GAGGGATGAT GGACCATCAT CCCAGAGGT

SEO ID NO:1994: (Length of Sequence = 377 Nucleotides)

TGGGGTTGCC AAACCAGTTG CCCCTGTCCT GTGTCAGCCA GCTGTGGCAA TTTCACCCTT ATTCCTTGGA GAGGCCAGCT GCCTGCTGGA AGGAGTCAGA AGTCGGTGGA TGTCATTGAG GCCTTGGAGG CCCCAGTNTG GCGGGAGAGA AATCCACACC TGTGCCTGGA GTTCTCCTTC CCTGACCCTC TGAACCGGG CTTAAAATGC TGTCCCGCCT GGAACAGGGA GGCCACATCC AGCAGTGCGT CCTCAATGTG CTGCCCCAGC CTGTGGGAAT CCGTTTTTGT GCTTGATTTT TTGCTGGAGA TGTGGAACGT GATCATGCCA TCCCCCATGA AGATATAAGA AACANCATAA CCATGGTCAT CAGCAGG

SEO ID NO:1995: (Length of Sequence = 341 Nucleotides)

GEACCIATAT GECCATECTO TEGCTETACO CITEGGAACO CIGATECEGE TETETECCOO AGETTETEA ESCECTAGGA
TECTECATOT COAGGCAACT ATGCACTITO COGGGAGAG AACCAGTATG AGAAGTGGGG GCAGGGCACA CATTCATOTT
TETACOTGCC TOTTTGGTTT GGACCTGGCC AGTCGGGTCA CIGCCTCCAC GTCTGAGGCC COGCCAGCTG GCCGTCTGTC

CTCGCCAGCC TCAGGCTGCT GCGCTCTCTC GGCTTTTACG GACCTCTGAG GCCGAAACCC CACCTCGAAG TTTCCCCGTG ACAGTGCGTC CGAGTCCACA T

SEO ID NO:1996: (Length of Sequence = 316 Nucleotides)

GCATATGGIT GGTGAACAGT TITGCAGCCC TAGGCTCCTG TACTGTGCGT GCACCGCCGC CCGGGCAGCC GCTGGCTCCA GCTCACGAAA CAGCCCCGGG CGCCGCCGC CTCTGAGTCC AGCCTCCTAC TGAGAACAGT CCCTCCCTTG TGCGGGTCGC ACGCTAGCC GCAGGTTCGG CCACGTCAAA TCCATTTINI AAAAAAGCAG GGAGCAGAGC TCTCTCTTCG CCGCCGACGC AGAAAGGAGC TNGGGAGGAA AAAGCTGCTG CCTTTTGCGC TGGAGATTCG TGGGCAAGGC TTCTCATTTT CCCAGG

SEO ID NO:1997: (Length of Sequence = 320 Nucleotides)

GCAGGITTAT GITTITATIT ATGIATITIA ACTGACITAT TIGIGIATIC CACTAGAACA ATACATICAC AATATACITG CAGAACTGG CCTGGNGCAT CATGGGAGCA GAGAACTGG CCAGGGAGCA GAGAACTGG CCAGGGAGCA GAGAACTGG CCAGGGAGCA GAGAACTGG CAGGGAGCA GAGAACTGG GTATGGCTGC TGAGCACCAG GGCTGCTCAC CATGCTCCCA AGAAGCAGAG TCAGGGAGGC AGACAGCAGG GTTTATTAAG GTGCACANCC ATGTCTGAGC CCCAGCTCTC TCCGNCTTCT

SEO ID NO:1998: (Length of Sequence = 395 Nucleotides)

TITGATGCTA TGGCGCTGGA CCCAGGGCCC TCCCAGGCCA TCTCTGTTCC TCTGGGGTGG TCCAGTTCTA GAGTGGGAGA
AAGGGAGTCA GGCGCATTGG GAATCGTGGT TCCAGTCTGG TTGCAGAATC TGCACATTTG CCAAGAAATT TTCCCTGTTT
GGAAAGTTTG CCCCAGCTTT CCCGGGCACA CCACCTTTTG TCCCAAGTGT CTGCCGGTCG ACCAATCTGC CTGCCACACA
TTGACCAAGC CAGACCCGGT TCACCCAGCT CGAGGATCCC AGGTTGAAGA GTGGCCCCTT GAGGCCCTGG AAAGACCAAT
CACTGGACTT CTTCCCTTGA GAGTCAGAGG TCANCCGTGA TTCTGCCTGC AACTTATCAT TGATCTGCAG TGATT

SEO ID NO:1999: (Length of Sequence = 337 Nucleotides)

GAAAGTATTT GTGTGATTGA GTCACACGCT GAATCAATCT TCATATAATG CCATTTTTGC TTAAAAGAAT GCCAGACTTG
GGCATTAGGC TGACATTTTC TTGAAAACAG TGAGGCTTTG CTTTAGGGAA AATAGTGGTA GTATTTATGG TCGATGATAA
AGTTCCTAGA TTTTAAGCAA AAATTTTAGA AAGCTTGTAT CAGCTGCTGT AAGTATATAA TGAAATCTGT CATTATTTGA
TTATCTGCAT AACTGAGTCA GTATTTCCAA ATGATCAATG CATAGTATTA TAAAAATCAT ACATGGGTAA GAAATCTTTA
CAAAGTGTCA GCTAGAC

<u>SEO ID NO:2000:</u> (Length of Sequence = 329 Nucleotides)

ATGTAGCCCC CTGCTGCAAA GGTGCCATCT TTTTNCTGCT GCTCACACAG CAGCGTGCTC AGGGCTGCC TGCATGGCAG
NNTCATCATG GGGAAGCCCA CAGCCACTGA CATCATGAAG CCCACACGGA GCATCTCCGT CACCACGTTG GAGGGAAAGT
GCATGAGCAC GTTTGCCGGC CGTGGCCTCG GTGAAGCTGA CGTAGCCGAA AAACCCCCACC ATGACGTAGG AAGGTGGTGA
CCACATTAAG GGAGGAAGCA AATATGGAGC TCATGGTTTT CACTTGACGG GCTCATCCAG GCTGTCGTAG GTGGGCAGCA
CCTGGGACT

SEQ ID NO:2001: (Length of Sequence = 308 Nucleotides)

AAGTCTGGGG TTTGGTAGGC TCCCAGGATT TCCCTCAGCA GGCATTTGTG CTGCCGCAG GCCGTCTGGG TGCCCCGCAG GTCNTCCTG ATGCTCTGTA GCCTCGGTG GAACGACTCC CTCACTGACT GTGTGGCAAA GCTGAGCTCT GCCCTGACCC ATGTGGCATT GGCCAGGATG GGGGCCANGC CCTGTGGGAT GCTTTGCTGC CCGINTCCTG AGGCACCGAC TGCCTCTCCT CCCAGTGTCC CCAAGTGCTT CCTCAGAAGAC TCAACCTGGN TCCAGAACTC ACCATCCACT AGGACCTT

429

SEO ID NO:2002: (Length of Sequence = 242 Nucleotides)

AGCCAGGCCC TGGGCCCAAG CCCCTTGTCC CTTCTCCACT GCCCCTCTTT CCAGACAGTA AAGGCCATGG TCAGTGTGTT
TTTCTCTTGT AAACAAACCC CAGCTTGTTT AACAGAAATG CTAATAACCT ACTGGGAAAG ATGGAGGTCT AAATTACCTC
CAGGGTTTTT CTGGGGGTTT ATCACCAGTG TGGGTCCCTT CTGATACCAC CAGGTTCACT CCAGGCAGAG TGGGGCGGAA
GG

SEO ID NO:2003: (Length of Sequence = 328 Nucleotides)

ATATTCTCAC TTATAAGTG GAGCTAAATN ATGGGAACAC ATGGACGCAT AGAAGGGNAC ACTITTACAC TNCTGGTGGG
NGTGTAAACT AATACAACCA CTGTGGAAAA CAGTGTGGGG NTTCGTTAAA GAACTAAAAG TAGATCTCCC GNTTGATCCA
GCAATCCCAC TACTGGGTAT CTACCCNNAA GAAAATAAGT CATTATACAA AAAAGATACT TGCACACACG TTTATAGCAG
CACAATTTGC AATTGCAAAA AATATGGGGC CAACCCAAAT GCCCATCAAT CAATGAGTGG ATAAAGGAAA TGTGAGATAT
ATATATAT

SEO ID NO:2004: (Length of Sequence = 211 Nucleotides)

AGCCITTUTA TIATUGINIT TITITUTTIT TAANGGAAGG TCCCTIACTG GTCCTGCTTC CATGAGTAGC CGTGACCAGG GGAAAAGGGA GAGGAACCAG CCGGCACAGG GAGGGGTCAT CTCCACAACA TICCATTIAT ACACAGAACT AAACAGACAA GCACAGNGTC ACTATTGCGG TTAGAAGTTG GCAGCATGGG AAGGGGGGAGG A

SEO ID NO:2005: (Length of Sequence = 241 Nucleotides)

COGGGACACC GIGGGGAAGG GGIGCAGGIG GGGGAIGGC CAGAGGAAIG AIGGGCITTT MITCIGAGG GIGICCGAGA
GGCIGGIGIA IGCACIGCIC ACGGACCCCA IGIIGGAICT ITCICCCITT CICCICCCI TITTCICITC ACATCICCCC
CATAGCACCC IGCCCICAIG GGACCIGCCC ICCCTCAGCC GICAGCCAIC AGCCAIGGCC CICCCAGIGC CICCCAGIGC
C

SEQ ID NO:2006: (Length of Sequence = 266 Nucleotides)

TICCCCCTAA CCITGIGAGI GGGCCITITA AGIAGIAAGI AGIATACACC TAGATATGGA TAGATAGCIA GGIGACCAAA CCIAATGGAT TAAGGCCATC CICGCCIAGG TCACITACTA AAGATCAGGI CATATGTCAT ATCGITCCIG TGCITITIAG AACGIATTIG GGAATGGGII CCAGATTITI TITAAACACA TATTAAAGAT TATTTATATT ATGCITTGIT TCCGAAAGGI TITAAAGGIGG ATTAAAATAT AAGATT

SEO ID NO: 2007: (Length of Sequence = 419 Nucleotides)

AGAAAGAGGC TTCCTTCTGC GGAGGCAGGT GGAGCACAGG GAGGGCTCCT GGGAGGCACA GGAGTGGGGT GGGGGCCAGG AAGGGGGAGG TGGACAGAGC GACTTGGATA AGGCTGGGCC GGGCCCACGC CCACCTCAAG AGGGGGGCCG CCTCCTCAGG AGGCNATCAAG GTGCAATCCA GTCTTCCTTT CTCTCCCTGA AGACCTGAGT TCCAGCCTTC ACAGAGCGTC ATGCGCATTC ATGCTTTCTTTCTGG ATGCTAACCC CAAATCCGAC ACTCAATGGT GCACCTCAGG TACCTGCCAA GGNTCTNTGG GCCCACATGG AAGGTGCAGG GTCTGGGTCC CTGGATGACG AGGTGAGGGG CAGATGGGTG ACCAGGGAAG GGCATGACCC AGAGCTNCCG GGACTCATGG AGGATTNGG

SEO ID No: 2008: (Length of Sequence = 360 Nucleotides)

CITITOTIGGA GAAAATAATA CICTOGITCC TCTAATTAGC CCATCGGITT CAGGITCATC ACTCIGCIAT CITCICCIGG AGTTTACACA AGCCCTTCAG AGTGTAAACA CCGATGIGGA TTCAATCCCA CTCATTATTT TTTTCAATAA AAAGAGAACTGTTTCAACAG ACAGGTGTTC TTTCCGACAT CATCAGAGAG GAAGGTGGAT GGTTCTATAC GGTAAGCATT CTACCCTTCA

GCTGCCAGGG ACAGATCCAT AAAANTCCAA AAAGGGAAGA GAGAAACAGC TTGAGTACAG CTGAATCATT CACAACAATA TTACAAGCAA TTACTTCAAT GGTAAAGTCT CCAGTCTAGA

SEO ID NO:2009: (Length of Sequence = 411 Nucleotides)

ATTACGGCA CCTGCCACCA CGCCTGGCTA GITTTTGTAT TITTAGTAGA GACGATGTTT CACCATGTTG ACCAGGCTGG
TCTCGAACTC TTGACCTCAA GTGATCCACT CGCTTCGGCC TCCCAAAGTG CTGGGATTAT AGGCGTGAGC ACCTGTGCCC
AGCCTCACAG CTGCATCTTA ACCTTACCTT TGCCTCTGCC TCTCAAGCTG GTACCTCCTA ATTTACATCC TAAGAGTGGA
ACCATGTGAC AAGGACTGGA GTGCCATTGG CTGTGGACTG TTCAGGCAGG GAAGTACAAG ACCACTCTTG TATTCAGGGG
CAACCAAAGG AGAGAATTAC GTACTTGTTG AGTACAAACT GCACCAAGCC CTGGAGACCC ATTACCACCG TTAACCCTCA
ATACAGCTCT G

SEO ID NO:2010: (Length of Sequence = 311 Nucleotides)

AAGAAAGATG CCAGCTCTTT ATTACCAGGG AAGCTGTGTG CACGCGCGTG GAGGGTNCCT NTGGAGCTGA CCGGGCCCTT
ACCTTCTCCT GCTTGTCAGA GGTGAGTCCT GGTACCCAGC ACGGTGGCCT CCGGGAGGCT TTGATAGGTC AGCCTTTGCT
GCCTCCCAGC TCAGGGGTCC TCCAAGGAAC CTGCGGGGCC CCATGTGCCC ACAGCCCGAG GAGGGAAGCA CCGACCGCCC
TCCTCGTGGC CAGTTGACAC ATCATCCATT TATTATCCTT CAGAGTCTAA AACTTCCTCG TGATACAACG T

SEO ID NO:2011: (Length of Sequence = 192 Nucleotides)

TCAGGACATT TCAGTGAGGC CACCTACAAG CAGAAAGGAG GCCCAGGGCT AGGGACAGAN TGGCCCCAGA GCCAGTCAGC TGCAGCAATT CTTGTGAGAA AGGGAGGGCA AGCTGCCAGA GCANTGINGC CCAATATGAT GCCTACACGA GACAGATGTC CCCAGTAGAG TGTGTTCAGT GACCTTCTAA AC

SEO ID NO:2012: (Length of Sequence = 367 Nucleotides)

SEO ID NO:2013: (Length of Sequence = 213 Nucleotides)

GATTITATOG AAAAAAATIT CCATTITINIT TAAGAAATAA GGAGTITINIG TGTCGAGGGC ATGACTACGA GAGGCTGGAA GCTTCCAACA GAGAATGCTG AACGANITCC CCCATGCCAT CGCCATGCAG CACGNCAACC AGCCCGATGA GACCATCTTC CAGGCAGAAG CTCAGTATTT GCAGATATAT GCTGTGACTC CCATTCCAGA GAG

SEO ID NO:2014: (Length of Sequence = 333 Nucleotides)

GITAAATAAA ACAGCAAATT CITAAATACA TTATGAGTAA AGAAAGATTA AAATAAGGNA ACAGTACTTA CTGTGCAACT
TTAAATTATA CCAAGTAAAG TACACCACCT ATTCACTGAT AACATTTCC CTACGTTGAA AACACAAAAC CTACTTATCG
ATATTTTTGA TATTAAAAAA AAGGACATTC ACTATTGTAG CCCTGACAAC TCTTCCAGTA TTTTTAACCA TTCAGATGTA
TTATGTGGGN ATATTTATTA ACATAATTIN GTTTAACACA TTTCTTTCTA CACAAACTGA AT.TTAAAAG TGTCTATAAC
ATTTTCAATT ACA

SEO ID NO:2015: (Length of Sequence = 179 Nucleotides)

NCACCACTTA TIGICITCAA ACATTATIGC ACTITAACTI TCTTAATTIG ACAAAGCATI CAAGAAACAT CIGCAGACTA
GITTIAACAG ACAAATAACA CCIGTAAGCA GACATGACIG TCCTAAATIG TITATTAAGA AAGITAAAGN GCAATAATGI
TIGAAGACAA TAAGIGGIG

SEO ID NO:2016: (Length of Sequence = 293 Nucleotides)

TITITCCCTCC CCAGAGATGC TITATTACAT GGITTCATCA GTCATCAATG ATGGGTCCCT ATGCCCATGC GAGGAGACAG
GAACATCTGT GTGGGTACATG GCACTGTTCC CCTCTCAGCT ACGCAGTCAG ATGGGGGCAG GGGGATGAAT GGGTGCTTGG
CTTCCCTGCT GTTGGGCAGG CTCTGAGATC TCAGCAGACA GAAATGAAAG CCTGGCAAAT AGGGAGGCAG GAATGTTCAA
GCATCGGTGA CCTCCATGTT CTGCAGCCTG TTTTCTAGGG TGACGTCTCT TTG

SEO ID NO:2017: (Length of Sequence = 504 Nucleotides)

CECGIECTEG COGCECTETE GECCECTEC INTECENCOC CAGNOTOCTC GIOCCCTEG ATATCIETTC CAAAAACCCC
TECCACAACE GIEGITIATE CEAGGAGAIT TCCCAAGAAG TECGAGGAGA TETCTICCCC TCGIACACCI GCACGIGCCT
TAAGGGCTAC GCGGCCAACC ACTGIGAGAC GAAATGIGTC GAGCCACTGG GCATGGAGAA TEGGAACATT GCCAACTCAC
AGATCGCCGC CTCATCIGIG CGIGIGACCT TCTINGGNIT GCAGCATTGG GICCCGGAGC TEGCCCGCCT GAACCGCGCA
GCCATGGTCA ATGCTGGACA ACCAGCATCA ATGACGATAA CCCCTGGTTC CAGGIGAAAT INCINCGGAG GGAINIGGGT
AACANNINIT GITACGAAGG GIGCCANCCG TITGGCCAGI ATTGGTACCT AAAGGCTTTA AAGGTGGCCT ANAGCTTAAT
TGGNAGGAIN CGNITINTCC ATGT

SEQ ID NO:2018: (Length of Sequence = 354 Nucleotides)

AGANCAGACC CACAGGCATG CAGAAAGGTA GGGCAGTATG TITAANICCA GACTIGGCAC ATGGCTAGGG ATACTGCTCA
CTAGCTGTGG AGGTCCTCAG GAGTGGAGAG AATGAGTAGG AGGGCAGAAG CTTCCATTTT TITCCTTCCT AAGACCCTGT
TATTTGINIT ATTTCCTGCC TITCCGAGTC CTGCAGTGGG CTGCCCTGTA CCCTGAACCT CATGAGCCTC TAAGGGAAAG
GAGGAACAAT TAGGACGTGG CAATGAGACC TGGCAGGGCA GAGTACAAGC CCAGCACCCA GTGTCCCAGN CTTACTGGGT
CCTTANCCTG GGCCAAACAG GGAGGGCTGA TACC

SEO ID NO:2019: (Length of Sequence = 295 Nucleotides)

GACACAACCI TITGAACTAT TGCTGCTGTT TTCATTTTAA AAAGGAACTT TTAATACTAA AATTATAGGA AGAACATAAT
ATCTGACGTC ACGTAAATTC AGATTTGAAG GAAATTTACT TTTTTNCCTT ATTTTTCCTC ATTTTTCTTC ATTTTTCTTC
GAACCAGCGA ACACTTTGAA GAAAGCCAAA AGTTTACATC TGGAGCTGGA GGGTTCTGTG ACTGCACACC AGGCACTCTG
CCAGCCCTAC TTCTGCCTGT AGTCCTGCAG GTCACTTGCC AGAGGTGGTA CTTTC

SEO ID NO:2020: (Length of Sequence = 217 Nucleotides)

ATTGGAACIT AAGITTCACA AGGAAAGIGG TCACTITAGT TCACCACTIT CCITGIGAAA CITAAGITCC AATGGGAGAA TGACAGIAAA CAGACAACIA TIATAATANG TCCATGGAAG ATTITGGIGI ATGINAGATT INCAAATCIG TAGAGAAACN TNGGCICATI CAATAAAAAT TITGAAACCA TIGATTAATG TCTTAATAAC TATATGI

<u>SEO ID NO:2021:</u> (Length of Sequence = 380 Nucleotides)

TITITCITA AAACAACAGC AACGIGATCI TGGCIGICIG (CATGIG)TG AAGICCAIGG TIGGGICITG TGAAGICIGA GGITTAACAG TITGITGICC TGGNGGGATT TICTITACAGC GAAGACTIGA CITCITCCAA GICCCAGAACAATC GGCAAGAAGG ATCAGGICAG CCACTCCCTG GAGACACAGC CITCIGGCTG GGGACTGACT TGGCCAIGIT CICAGCTGAG CCACGCGCT NGTAGTGCAG CCTTCTGTGA CCCCGCTNTG GTAAGTCCAG CCTTTCCAGG GCTGCTGAGG GCTGCCTCTT
GACAGTGCAG TCTTATCGAG ACCCAACGGC TCAATCTGCT CATCCNTAAA GTGGGGGATA

SEQ ID NO: 2022: (Length of Sequence = 223 Nucleotides)

GGTCACACAG CTAGTTGGTA GAGGAGCTCT TCCATAAGAT AGCAAGGCCA CATCACCTGC AGGGCAGTGC CTGCNCTGGG AGGTGGCACA ATGTGCCAAG TGATGACGAT GACAATAACT ATGAAAGGAT TTTATATTTG CACAGCATTT GGTTGCCTGA TCTTCGATGA GGAAGAGCTC CTGCCGATGT CTGCTGAATT GTGCAGTAAA ATATTCAGGA TGG

SEO ID NO:2023: (Length of Sequence = 294 Nucleotides)

TATTCTTAAG TITGCACTIT ACAAAACCAC AAGGGAGAAG TCCTTGAAGG GGAGACAGGG GTAGGGGATT AGGGAGTGGG GGATGGTAAA GAGGGGAAGA GGAAGACCCA GAAACGAAGT CCCCTCCAAC CCCATCTCGG GGACCAAGCA GAGACTAGGC CTCAGGCTAG CCCAGCAGGG TTCCTGTGTC CTGGTTGTAC AGAGCTAGGC CAAAAGACCT CAGGGGAAGG GCCATGGCCC TCTAGAGACT GCCGCCATTT GAGGGACAGC CACAGGCCAA TGTTTCCTGT GCCC

SEQ ID NO: 2024: (Length of Sequence = 234 Nucleotides)

ATTITIGICGE GGITGEAAAC GTETTECTGE CITGAGETGG GAGETTEACE AGGETTEGGT GTAGEGGACG TECACITECT
TCAAATTGGG AAGETTGGCE TTEAGATETT CGTAGGTGTE AGCTGAGAGE TTNGTGCTGT TEATGTTTAA ACTGCAGAGA
CTCTTCATGG AGCTCAGGGC CAGCAGGCCA GCGTCTGTAA COGGGGTCTC GCACAGGTTC AGCACCTGGA GCAT

SEO ID NO:2025: (Length of Sequence = 327 Nucleotides)

AGGAACAAAT GITAAAGGGI AAGATAATIT CCCTGCAAAA GGACACAGAA GGCAGTCTTA AGAAGATGAA TGGATGAGAG AAGGGAGAGA ATAAAATGCA ATAACGAGCC AGCATTTACT ATGTATTINN TCCTCACCTG TCTCTCCATA TTTAGGTCAC TTACCAGTTT CTGTGCCCTT TTGGAGCTTT TNTTGAGGGC TTCATTCTCA CCCTGTATTT CTTTAGCCCT AAATTGACAC TCTCTCCAAA AATCCATTCC ATTGTCTGTG GACCNAGATG TTCTATGTAA TTCAGAAGCA GAACTCTTGG CTAAAGGGCT AGTGTGG

SEQ ID NO:2026: (Length of Sequence = 328 Nucleotides)

TCAGTATAAA TITAAAAGAA ACAGCTTAAT GAAATACAAG TCAGTTTATT TGATATTCAG CCTACAGCTT TCCAAAGCAG CAGTTGAACA TGTTGTTGAG TTTATACCAT TCATTCATTC ATTTATTTTT NCTTTCTTTC TTTCAGAAAA TACTGGGTGT TTGATATTTG TTTCACTGTG CTAGTTTCTG GGAATGTGTA AGGAAGAGGC TGGCTGTGG GATGAGAGCA ACTTGCTTTT TACAATAATT ATTTGTTATT GTAAATTAAC AATTTGCTCT TCTGGTATTA TATGGAAGTA TTTGATCCNG TTGATGGCAC TGCCTTTG

SEO ID NO:2027: (Length of Sequence = 307 Nucleotides)

AAGAAAGATG CCAGCTCTTT ATTACCAGGG AAGCTGTGTG CACGCGCGTG GAGGGTNCCN TTGGAGCTGA CCGGGCCCTT ACCTTCTCCT GCTTGTCAGA GGTGAGTCCT GGTACCCAGC ACGGTGGCCT CCGGGAGGCT TTGATAGGTC AGCCTTTGCT GCCTCCCAGC TCAGGGCTCC TCCAAGGAAC CTGCGGGGCC CCATGTGCCC ACAGCCCGAG GAGGGAAGCA CCGACCGNCC TCCTCGTGGC CAGTTGACAC ATCATCCATT TATTATCCTT CAGAGTCTAA AACTTTCCTC GTGATAC

SEQ ID NO:2028: (Length of Sequence = 272 Nucleotides)

ATCCATTTCT GCATTAACCT AGAGTTAAAA AGGAATATTG TTTATTGTTT GGCTCTCCCC ACTAGAAGTT TCACAGGNGC ACAGATCATA TCTACCATTT GAACAGCTCT CTGCCTGATG GCTAATACAT TTNTTGGCAT ATAGTAGGTA GGTGCTCAAT

AAATTINITA CAGGAATAAA TGAGATAGGA TTTTCAAGGG TATTINCTAT TAGGATTTAA TAAAACAAAG TGATCITTIAG AGAAACAAAT CTCCCCCATCA ACATGCTATA CT

SEO ID NO: 2029: (Length of Sequence = 261 Nucleotides)

SEO ID NO:2030: (Length of Sequence = 384 Nucleotides)

MMCCNNGGAC CAACAGCAGC CAGAGCAGIT AGCCAGITAG TCCCCAGGCC TGTGGCACAG GCGTTTCTGA CCTGCTGGGC CGAGAATGGG TAAGITGTCT GGAGTCAGGT GGGCCCACGT AGGACAGGGT CACAAAGCCT GGGTTTGTTT CTGGGTACTT TGCGCCCTCTG GGGTGCTAGA GGTGGGGCAT GGTGGCTGGA AGTAAAACTG CCAACTCTGG CCCTCAGAAC TCTCAGGTAT AGAAGCCCAA GATGTCTAAT ACCCINTCCC AGTGCCCGAG AGCTGCCTGG TGTCAGGTAG AGAGGACACT GTACCTGGGT GAATGATCAG ACCCTGGTAG ACCCCTGGTAG ACCCCTGGTAG ACCCCTGAG ACCCCTGGTAG ACCCCTGGTAG ACCCCTGAG ACCCCTGAG ACCCCTGAG ACCCCTGAG ACCCCTGAG ACCCCTGAG ACCCCTGAG ACCCCTGAG ACCCCTGAG ACCCTGAG ACCCCTGAG ACCCCTGA

SEO ID NO:2031: (Length of Sequence = 261 Mucleotides)

ATCACAGAGG AGAAGCCACT GTTGCCAGGA CAGACGCCTG AGGCGGCCAA GGAGGCTGAG TTAGCTGCCC GANTCCTCCT
GGACCAGGGA CAGACTCACT CTGTGGAGAC ACCATACGGC TCTNTCACTT TCACTGTCTA TGGCACCCCC AAACCCAAAC
GCCCAGCGAT CCTTACCTAC CACGATGTGG GACTCAACTA TAAATCTTGC TTCCAGCCAC TGTTTCAGTT CGAGGACATG
CAGGAAATCA TTCAGAACTT T

SEO ID NO:2032: (Length of Sequence = 344 Nucleotides)

CCCCTGCACG GCGTCTGGTT CTTCGGGGAA AACGCTCACC CACCCCTGGT AAAGGGCCTG CAGATCGAGC ATCCCGGGCC CCACCTCGAC CACGCAGCAC CACAAGGCCAG GTCACCCCAG CAGAGGAAAA GGATGGACAC AGCCCCATGT CCAAAGGCCT AGTCAATGGA CTCAAGGCAG GACCAATGGC CTTGAGTTCC AAGGGCAGCT CTGGTGCCCC TGTATATGTG GWTCTCGCCT ACATCCCGAA TCATTGCAGT GGCAAGACTG CTGACCTTGA CTTCTTCCGT CGAGTGCGTG CATCCTACTA TGTGGTCAGT GGGAATGACC CTGCCAATGG CGAG

SEO ID NO:2033: (Length of Sequence = 373 Nucleotides)

GGAAGAAGA AAGAAAGAAA GAAAGAAAGA AAGAAAATGG CCCCATAGTG CTTAAGTCCT CAGACATGTG TCCTGGTGCT
GGGGACAGGG CTTCTGACAT TCTCTCAGGT CAGTATTTGC AGGTCATCCA CCTTCGACTT CAACACATGT GACCAGAAAC
CTTCCCAAGG CAGCCATCCA CTTTGCTGTC CCTCCGACGG CCATGGCTGA CCACTGCTGC TGCTGTGTAT CCTCGGTGAC
ATCTGGCCTT GGCAGCCTAT GGATTTMTGC CATTCTCCTG GCATGAAATC ACTCCTTCTT GTTGTTTTAA TTTGCATTTC
TTCAGTTACC AGGGCAGTTG AGCATCTTT CATACACTTA CTGACCATTT CTA

SEO ID NO:2034: (Length of Sequence = 289 Nucleotides)

CCACCAAAGA ACATCACGCT GTCTTATGTC AAATGCTCGA CAATACCTCT CAGTAGGACG TTGTTGCAAG GCTAGCTAAT
TTTAAATCTG GTATGAGTAA TACAGTCAAA CCTAGTTAGT ATGCGAGAAA GTCGTTGCTA ACGCATGGTG AGAGGATGTG
ACGTCACAGC ATGAGCAGTC CCTGGTTGTC CCATTGTCAG ATAAACGTAG TANAGTAGN CCAAGTTTCT ATGCCACGTC
TCTGAACCCC AAAGCCAGGC CTTTCACTTT TGCTGGGTGG CCTGGAAGC

SEO ID NO:2035: (Length of Sequence = 290 Nucleotides)

CTITICCTIC ATCIGAÂCAC AGAAGGÂGCC ACGITCIGGA AAGINTECCT GICCITCCCG GGAGTGGGGA GGCCGGTGTG
AGITTIGATC TICCAGCTCA GGCAGACACC TIACACAGTG CAAACAAGAG CCGTGTCAAG ATGAGAGGGA AGCGTAGACC
GCAGACCCGT GCAGCTAGGC GGCTGGCTGC TCAGGAGTCC AGCGAGGCTG AGGACATGAG CGICCCCAGA GGACCCATTT
GCACANTGGG CTGATGGCGC CATTTCCCCA AATNGCCATC GGCACCAGCT

SEQ ID NO:2036: (Length of Sequence = 241 Nucleotides)

TTATTITATA TAAAAAGIGI TICIGIGATI CICCAGAGCC CAGGAGICAG INCIGGIGGI TGGAGGGACC TGCCCCCACT
GGITCATITA ACCCICIGIC TCGGIGCCCI NAGAACCICA GCCAGAAAGG CAAGGAGGAA ATCAGAGCAN GAGCCTCATA
CICITGGIGA TCTATICATI CINIGACCIC AGGGGICACA TATAAGGICA GIGITTCTCG TCCCCGNCGG ATCIGCACTG
C

SEO ID NO:2037: (Length of Sequence = 270 Nucleotides)

CTATTATITT GCATTITIGG TAGAAGGGGT GGTCTCACCA TGTCGCCCAG GCCGGTCTCG AACTCCTGAG CTCAAGCGGT CCACCTGCCT CAGCCTCCCA AAGTGCTGCG ATTACAGGCT TGAGCCACTG CACCCTGCCC AACCTTGACT ACTTCTAATA GGGATGAGTC GAGTAGCAGT TAGGGGCGTC CTGTGCGGCT GGGTCTGCCT GAGGCTCCCC TCGGCCCCGT CCATGGCTTG TTGTGCATCT GGCCCTGAGT GCCTTGGCCC

SEQ ID NO: 2038: (Length of Sequence = 151 Nucleotides)

SEO ID NO:2039: (Length of Sequence = 166 Nucleotides)

TITGTCTGIT ACAACCTCCG TATGACGCCA CGCCACCCGC TGITCACGTC CCGTCGGCCT CCTGCACAGN CCACACGCTG CGCCCGGAAG GCCCCTGCTG TGGAGAAGCC GGACCCATCC CCGAGGTCCC CAGCGAGGAC ACANACTCCA CGAGAGCAGC CCCTCC

SEO ID NO: 2040: (Length of Sequence = 362 Nucleotides)

GAAGIACGET TAAAATTAGA TITGACCATA TGGAAGATCT TITACCAGTT GGTCTCCAAG AATGTCTTCC TTATTATGTT
ATTGGTCATT TITGAGCGTG TGTGTTGGTG GGGTGGTTTC TGCCTTATAT TCCTTAACTA CATTGTATAT TTTTGTAAGG
AATTGGGAAT TCATTTTAAT GCTTTTTAAC ATCTTCACTG GGAACTGGAA TAAAGTTATT CTTGACTCTG TACCTTGAGC
CATTGTCAAA GTCAGGGGTT ACATTTTAGG TATCTAAAAA TTACTCTTTA ACTTTCACAT TCCCTGGGTT AGGAAGCTGC
TGTTCAGGAG AAATTTTCCN GGTTCTTCTG GCAATTGGCT TA

SEO ID NO: 2041: (Length of Sequence = 360 Nucleotides)

SEO ID NO:2042: (Length of Sequence = 403 Nucleotides)

GITATTGTTG TITGAGATGG AGTITCACTT TINTIGCCCA GGCTGGAGTG CAGTAGCATG ATCTCAGGTC ACTGCAACCT CTGCCTCCCG GGCCCAAGGG ATTCTCCTCC CTCAGCCTCC TGAATAGCTG GGACTACAGG TGCCCAACAG CACACCCGGC CAATTGTTGT ATTTCTAGTA GAGATGGGGC TTCTTCACGT TGGCCAGGCT GGTCTCGAAC TCCTGACCCC AGGCGATTCC CCCACCTCAG CCTCCAAAAG CGCTAGGACC ACAGGCGTGA ACCACTGCGC CCAGTCGGAA GTAATAGTTA TTAACCAATG TGATGGCCGG GTGTAGGGAC CCTCGCCTGT AATCCCAGCA CTTTGGGAGG CCAAGGAGGG AGGACCGCCC GNGACCAAGA GTT

SEO ID NO:2043: (Length of Sequence = 331 Nucleotides)

CCCCGTACGE TETEGETETE AGEAGCETCA CCACAGGCAC CGCAGCTTTC CCGCTGTGCA CCCAGCTGGG TETETGAATC CCCCTGGACT GCGCCCAGGC CACCTTCATC TCCCATGACA AGATGGTCAT CTCCCTCAAG GGCAGTCAGA TCTACATGCT GACCTCATC ACCGATGGCA TGCGTAGGTT CCGAGTGTTC CACTTTTGAC AAGGCGGCCA CCAGCGTCCT CACCACCAGC ATGGTCACCA TGGAGCCTGG GTACCTGTTC CTGAGTTCTT GCCTGGGCAA MTCTCTCCTC CTCAAGTACA CCGAGAAGCT TCAGGAGCCC C

SEO ID NO:2044: (Length of Sequence = 244 Nucleotides)

ATGGAAGATA CTAAGAGCCT CAGTCTGGAA GCATTTACCT AGGAAGCGCA TATAGACAGA GAAGATCAAG GACTGAGGCC
TGAGACAGTC AGCACTTAAA GGGTGAGGGG AGAAGTGCCA AGGAGACAAG GTGAGAACAG CAGAAGAGTA GCCAAGGCCC
AGGATGTTGC CACAGAAGCC AGGAGAGGTG AGCATGAAAA CAGAGGAGGA CCAGCTGCTG GGACAGAAGA GCCATATGGA
AGAG

SEO ID NO:2045: (Length of Sequence = 333 Nucleotides)

GTCAGGGATT TGTCCATTCT GCTCTTGGCC TCTCCTGAGG CCTCATAATG GGAGACCAAA TCAAAAATGT CCCATGTCAC
TTGAGTGGGT ACACTGCCTA CAGAACCTTG AGGTTGACTC CTGCTTCAGT TCTCAGGTGT TTACCACAGC CCTCCAGGGT
CCAAAGATTG AGGAGCTTTC TCTTTCCTGG GAGGAACTGT CTCANATTTA GCTTGTGTGT GTTTTGGACA GAGGCTCCAC
AGCGGTGGCT CTTGAGGAAT CCTCACCAGT TTGTNCTCTT CCCTCTGACA AGCAGCACCT GAGCAGATGC TGAGGCAGTT
CATTAAACCA GGG

SEO ID NO:2046: (Length of Sequence = 274 Nucleotides)

GCAGGITIAT GITITIATIT AIGIAITINA ACIGACITAT TIGIGIATICC CACTAGAACA ATACATICAC AATATACITG
CAGAACIGIG CCIGGNGCAT CATGGGAGCA GAGAACITGI CCAGIGAATA GITGITGAAG AAAGGAGTAA AATCICCCCC
AAACCCIAAA GGCATCCITI TCGIAGIGIG TGICCCATAG GIATGGCIGC TGAGCACCAG GGCIGCICAC CATGCICCCA
AGAAGCAGAG TCAGGGAGGC AGACAGCAGG GITT

SEO ID NO: 2047: (Length of Sequence = 327 Nucleotides)

GGCCGCGATG TGCTTTINTC CTGINITCGC TGCCCGGGAT GCGGAATCTT GAGCCTCGGT GTCGGGTTAC AGAGTTGTCC
TGGTGACGGG ATGCCGGAGGT TTCCTCCTTT TTGTTGTGGG GGCGGGTGGT GGCAGGGGCA GCTGGTGGCA GGGTTGCCCA
CGCTAATCTC CGAGTCTCTA AGGCCACCGT CTTTCCTGGA TCCCTCTTGC GCCTCGTCCA TAAAGGCAGA CCCGCGGGCG
CGCCCGGCA ACCTGAAATC AGAGCAGGCG TCCGTGGCGC TCAGGAACCT TGCTGAGCTT CGCCGATCTT TCATTGTTGC
TTCATTT

SEQ ID NO:2048: (Length of Sequence = 241 Nucleotides)

ACTITIGITIGI TOTIGATTITA GGACTICIGO TEGCCATGIG CITANEGITIG CONTOCICCI ATTINICACI GGATTINICACI TECATOGITIT GGAGATACAA AGOGAGCAGT TOTIGGITCAG AACCOTOCIO TECTITICAT TGTGITTGAT AATGGITACT GGGTCOTTOT CICAAGGGTA GCAAGGCCAA GCTGATGGCT GCTTGITTAG GAGGCCATCA GTTCCTTCCT GTGGAGAAGG G

SEO ID NO:2049: (Length of Sequence = 269 Nucleotides)

ATTITIAGTA GAGACAGGT TICACCATGT TGGCCAGGCT GGTCTCAAAC TCCTGGCCTC AAGTGAGCCA CCTGCTTTGG CCTCCCAAAG TGTTGAGATT ACAGGTGAGA TATTCTATAT TCATGGATTG AAAGACTCAA TATTGTTAAG ATGTCAGTNC TTTCTAAAGN GATTTTTAG ATGCAACACA ATTCCAATCA AAATCCCAGG NITTTTTTGT AGCTATCAAT TGATAGATAT CAACAGCCAG CTGATTCTCA AATTTACGT

SEO ID NO:2050: (Length of Sequence = 170 Nucleotides)

TTTTGAAGAG AACGTCAGTT TAATAAAGCT AAATGGGGAG AATTGAAGTT TGCATTTGAC ATGGTATTAA ACAAAACCAA
AGGGCTGAAA CTCATGTTTA GACAACACAG GTCACTAGTC ACTAGGCAAA GAAAACAGTC CACAGCAGGT GGCACAAATA
ATTCCTATAC

SEO ID NO:2051: (Length of Sequence = 262 Nucleotides)

CAGGGCACAC GCAGGACCAC TGTGGATTAG AÁACCCACAC GTGTCACTCG CAACATTCCT CCCACATCCA CATCCACGAC
GGAGCCAAAT CTCATTTGTC ACCCTCAGTC ACCACCCCAC AAGATGGAGC CGCTGGTTAC GACATGGATG ACAGGTGTCA
TGCACAGGGA GAGAATTTNT CCCCGGATAC CCCTGAGGAC CAAGGACCAC CCCCAGGCTA GGGTGGGAGG ATTGAGAGCA
GTGCAAGAAA CCAAGGAGGA TN

SEO ID NO: 2052: (Length of Sequence = 325 Nucleotides)

GAAAAAAGAT TETTTTETTA GAAAAAGCAA AAACAAAAAA GCATTAGAAA GTGGGAGCCA CTGCACAGCA GTAGCCTAGA
GACTGGCTGC GATATGGTAG CTCTGCCTTG ATATCATCTT CGTGTCTTCA GGCATAGAGA AATGGCAGAG GAGCAGTAAG
ACCCCACAGG AGATGGCCAG AGGNTCCACC ATCAGCCTTC TGGGGACTGA GGAGGTGATC TTAGTGGAAT TATTTTTATAC
TCACCTCCCC CGGGGTTTAG TCCTTCCTCC AAACACTTAG TTCCAGGGCG CAGGAGACCT GTTACTAGCA CTGTATGTTT
CTTTG

SEO ID NO:2053: (Length of Sequence = 222 Nucleotides)

TITCAAAATT AGTCTTAAGA GTATAAGCTG TITTTNAGGG CTGTAGCCAG ACTACATAAT GAGCGGTGAA AGCGGCTGCC
TTCCCCTCTC CTGACACCAG CAAGGGGGAG GCACCATCAC
GANGCCAACG GCAAAGGNCC CCGCGGGTT GCTCGTGTTT AATCCAGGTT AAGCTATACA CG

SEO ID NO: 2054: (Length of Sequence = 341 Nucleotides)

GIAAATTAAG AATATGGCCC CAGAGTITTG TITATCTGGG GTCTGAGCAT AGATTITATA TICTCTGTTG CGTTTTTTAA
ATCTAACTTT CTGTCTCCAA TGGAGAGAGA ACAGGGAGGA TACAGAAGTA TTGCAGCCCA GATCCCCTAT CAGGGGGACA
GCTGGTGGGC AAAGCAGCCA CCCCACAGCC TTGTGGCTAG AGTACAGTGG GGTGGACCCT CCAGCCCCAA TAGCCCTAGT
ACCCAGCTGG CAGGGTTGCC CACCCCTGCT GTCCACCCGC TCCATCCTCT AGGGGTTCCA CAGGCCCCTG ACCGCACAGG
GAGGCTGGGG CCAGCCTGGT C

SEQ ID NO: 2055: (Length of Sequence = 258 Nucleotides)

CTGCCTCAGC CTCCCAAGTA GCTGGCATTA CAGGCGCCCA CCACCACACC TGGCTAATTT TTGTATTTTT AGTAGAGACG
AGGTTTCACT ATGTTGGCCA GGCTGGTCTT GAATTTCTGA CCTTGTGATC CGCCTGCCTC GGCCTCCCAA AGTGTTGGGG
ATTACAGGCG TGAGCACCAC GCCCGGCCAA CTTGCTTTTC TCTAATGGCT GGCGATGTTA ATTTTTTCAC TGGCTTATTT
ACCGTCTCCT TCTGTGGA

SEO ID NO: 2056: (Length of Sequence = 292 Nucleotides)

CTCTTGACTC CGAAGGCTGG TGACAGACAC ATAAGGCAGC TCAAACTCTT GCAACTTCCG TACAAAAGAA AAGGCTCCAT
CCTCTTTTTC TCGAACTAAG AATAGACTAA AGTATCCAAT CAAGTCATCT GGAAGATCCA GCTTTGCAGC TACAGCCTCC
AGGACATCCT CAGTCTGATC TGAAGTTAGC ACGTTGACCA GAACTTTCTG CCCGTTGCTG AGCAGCACTT CCAAGGACAC
TTCCTCTGTG GGGACCTGCT GTGTCTCCTG TTGTGCCCGA CGCAGGAAAC TG

SEO ID NO: 2057: (Length of Sequence = 293 Nucleotides)

CCAAAAAACT TEGGTECCTE AAGGTEGGET TITEATCATE GCCAGGCTTC AAATTTAGGT CAGGCTCTEG TEGTACATCC
TTATATGCTT GGTGCTCAGC ACAGGTCAAG ACACACAATA GACCCTCAAT AAATATTTGC TGAATTTGAA CAATTCCTGT
AAAAATCTCA TTAAGAGACAC TCAGCTTGGG ACACAGTTCC TCTCTTACTG TTCCTTCTCC CAGAAGCTCC TGGAATGAGC
AGGTCTGGGG GCAGGGGGCA CACAGGGCTG CTGCTCAAAT CGGAGAATGG CAC

SEO ID NO:2058: (Length of Sequence = 172 Nucleotides)

CTTCTACAGT CAAGGAGCTC AAGCTCGCCG GGCGACCCTG CTCCTGCCTC CCACATTAAT GGCGGCATCC TCGGAGGATG
ATATAGACCG GCGCCCCATC CGGAGAGTGC GCTCCAAGAG CGACANGCCG TACCTCGCAG AGGCCAGGTT CTCCTTTAAC
CTGGGGGCAG CT

SEO ID NO:2059: (Length of Sequence = 245 Nucleotides)

GCAAGANGGC CGAGGGGGCC CAGAACCAGG GCAAGAAGGC CGAGGGTGCT CAGAACCAGG GCAAAAAAGT AGAAGGGGCC CAGAACCAGG GCAAGANGGC TNAGGGGGCC CAGAACCAGG GCAAGANGGC CGAGGGGTCT CAGAACCAGG GCAAAAAAGGC CGNGGGAGCC CAGAACCAGG GCCAAAAAAGG AGAGGGAGCC CAGANTCAGG GTAAAANGAC AGAAGGGGCT CAGGGCAAAA AGGCA

SEO ID NO:2060: (Length of Sequence = 318 Nucleotides)

ATGCCCTGIT AAGGAGCTTG GGCTTGATCC TCTAGGCAGG GAGCCGTTGG AGGATTTAAG CCAGGGAGTG CTGCGGTTGG
TCACACTCGC CATTIATGIA GATCGTTTTG GCAGCCAGGG GAAGGATGGA TTINAGGGGG ATGAGATTAG AAAGCTGGGA
TATGAGTTAG GAGGCTGAAA GATGGTTGAT AAAAATNATC GTTGGGCAGC CGAGATAACT GACTTCAAGG ACATATACTG
GACTTATAGC AGAGCCTGTT GAGTCTTGCT TTTGCACACA GTTCAAATAA TCACTTAGTC ATGTGGTTTA TCTTGCCA

SEQ ID NO: 2061: (Length of Sequence = 331 Nucleotides)

AAAAATAAAA ATCIATAAAC TACGGATCAT AAGCAACICC TGITTCTGTG GGITTCACCA CATTCTCCAG AAACTGAACT
TTTGCTCATA AAAATTACAT AGAATGIAAA CTAATTCATT TITTAAAGTA AATGCAAAAC TAAGGGITAC ACAAGCACTG
AGCATCAACA CTGACAGAAT ATTAATTCTG AAGCCCATTA ACTTTGACAA ACGITTATTC ATCTTTGCCT TCTTGAAGCG
TGTGACTATC CCAGTTTTAC AGGAAAAGCT TAAACAGAAA AAGTTAAATA ATAATCTCAA GGTTAGNAAA CTAAGACATA
ATTTCCAGCT

SEO ID NO:2062: (Length of Sequence = 316 Nucleotides)

CTAAAATCAA CCACATAATT GGACATAAAA GAATCTTCAG CAAATACAAA AGAACCAAAA TCATAACAAA CACACTCTAG
GGCCACTGCA CAATAAAAAT ACAAGTCAAG ACTAAGAAGA TCACTCAAAA CAATGCAATT ACATGGAAAT TAAGCAACAT
ACTCTCAAAA TGACTTTTGG GTAAATAATA AAATTAAGGC AGAAATAAAG AAGCTCTTTG AAACTAATGA GAAGAAAGAT
ACAACGTATC AGAAACTCTG GGGTACAGCT AAGGCAGTGA TAAGAGGAAA ATTCTTAGCA CTAAATGCTC ACATTG

SEO ID NO: 2063: (Length of Sequence = 312 Nucleotides)

ATCCATGGCT TTAGCAAGAT CCCAGTGTCG GAACTCTCCT AGCAACTTGT NTTCATCCAG TGATACTGGT TCTNTGGGGG GCACTTACAG GCAGAAGTCC ATGCCCGAAG TGTTGGAGTG AGCCGTAGAT CCCCAGCCTC CACTGACAGG CAGAACACCC AGTCAGATAT TGGTGGCAGC GGAAAAATCCA CGCCTAGCTG GCAAAGAAGT GAGGATAGCA TTGCTGACCA GATGGCTTAC AGTTATAGAG GACCTCAGGA TTTCAATTCT TTTGTCCTCG AGCAGCATGA ATATACAGAG CCAACATGCC AT

SEO ID NO: 2064: (Length of Sequence = 294 Nucleotides)

TACCTAAAGA ATCCTCAGAT GGGAGACCCA GCCAGTTTGG NTCACAAATT AGCAGAAGTC AGCCAAAATA TAGAGAAACT
GCGAGTAGAG ACCCAGAAAT TTGAGGCCTG GCTGGCTGAG GTTGAAGGCC GGCTCCCAGC ACGCAGCGAG CAGGCGCCC
GGCAGAGCGG ACTGTACGAC AGCCAGAACC CACCCACAGT CAACAACTNC GNCCAGGACC GTGAGAGCCC AGATGGCAGT
TACACAGAGG AGCAGAGTCA GGAGAGTNAG ATGAAGGTGC TGGCCACGGA TTTT

SEO ID NO: 2065: (Length of Sequence = 331 Nucleotides)

GAGCTGAGIT TCACCGTGIT GCCCAGGCTG GTCTCGAACT CCCGGTCTCA AGTGATCCTC CTACCTCAGC CTCCCAAAGC ACTGGGATTA CAGGTGTAAA TCACTGTGCC CAACCTGCTC AAACTCTTGG AGAGAAGCAA GTCTTCTAGC TGAACGTGAT AATGGCCTCA AAAGCAGTGT TGACAGCAGA TAATCTTCAC ACAGACAAAT GTCTACAGTT TCTAAATAAG CCAACTGTGC ATATGGCCTA CAGGCTCTTC AGCATAACCT ACCCAAAGCT CAGGTTCCCT GAAGGCCAGG ACAGTACCTC GGGCCTTCAA GCAGCATTTG G

SEO ID NO: 2066: (Length of Sequence = 321 Nucleotides)

GTCTTGANCT CCTGACCTCA GGTGATCCAC CANCCTCGGC CTCCCAAAGT GCTGGGATTA CAGGCGTGAG CAACCGCACC
TGGCCTTGAA CCCTTTGAAG TATTGATGCA AAAACAAGTG GTCAGCTATG GCCAAATTCG CAATTCAAAA AGATCCAAGA
AAGCAAGTTG AACATCCTGA TTGGAGATGG GACACACCCA AACGTGTGTC TTGAGGTGGC TGCAAAGTCC TCCGGTCTGA
GCCAGTNTAA GCAGGTTTTA CCCCAGCCCA TGATTTAGAG AGATGTTNAG TGCAGATCCT GAGCTCAGCA GAGAGCAACA
T

SEO ID NO:2067: (Length of Sequence = 335 Nucleotides)

CTGGCTCTGT GGCTCAGGCT GGAATGCAGT GGGCCGAGGT TGGCTCACTG CAACCTCCAC CTCCTGATCT CAAGNCGTCC TCCCACCTCA GCCTCTCAAG TAGCTGGAAC TACAGTGGAA CTACAGGTGG ACAACATCAC ACCCAGCTAA TTTTTNTNAT TTTTTTGTAGA GACGGGGTTT CACCCTGTTG CCCAGGCTGG TCTCAAACTC CTGAGCTCAA GCAATCTGCC CACCTAAGCC TCTCAAAGTG CTGGCATTAC AGGCATGAC CACCGTGCCT GGCCTGGGAA GCTCTTTTAA CAGAGGTGAT GTAAAGTAGA AAAAGCAGTG GGCTC

SEO ID NO: 2008: (Length of Sequence = 274 Nucleotides)

GENACCIGATE GGACAGGGTA AAGAAGGAAT GGGAAGAGGC AGAGCTTCAN GCTAAGAACC TCCCCAAAGC AGAGAGCCAG ACTCTGATTC AGCACTTCCA AGCCATGGTT AAAGCTTTAG AGAAGGAAGC AGCCAGTGAG AAGCAGCAGC TNGTGGAGAC

CCACCIGGCC CGAGIGGAAG CIAIGCIGAA TGACCGCCGI CGGAIGGCIC INGAGAACTA CCIGGCIGCC TIGCANIAIG ACCCGCCACG GGCINATCGN ATICINCAGG GCIT

SEO ID NO:2069: (Length of Sequence = 321 Mucleotides)

GTGCCATCTG TTTACTTCTC AAATGAAAAA GAATTCAGGT CTGAGTGTCC AGGAAAGGGG GTGAATTTCA TAACCGCCTG
TGACAGCGAT GGGAAGGAGC CACACCCCTC CAGAGGGTAC CACCCAGCGG ACAAGTGGGG AGGAGGAAGT AGCTGGCATG
AAGCCGGCCC ACCCAACCTC CGGGAGAGAG GAAAAGGAGA ACACGGGATG AGGAGGCTTT AAATAGTATT TCATAAAAATA
AAAATGCCCA GCACTCTTAG GAACCTCTCA TTCAACCGCC TAGTTTTTGT TTAAATAATT CTAATGCCAG AGCTGGGGGG

SEO ID NO:2070: (Length of Sequence = 161 Nucleotides)

AAAGCTGCAT AAAACAAGIT TAATTTCCAA CCAGGGTCAC AGTCATCGCG TTATCCCACA TTTTGAGCAA GGATAGAGAA GGTGAGTTAT TAAACATATA CAGTCTACAT TCCAGAGGAG GAACTGCAGT TACCACTATA ACACCACAGA CAAACTTTGG G

SEO ID NO:2071: (Length of Sequence = 288 Nucleotides)

GIGGAAGGC CITCATACAT GCITCCCATC TICAGGAACA TCAGAGAATT CATACTGGGG AGAAACCATT CAAATGGAT
ACATGIGGTA AGAACTICCG TCGIAGATCA GCACTTAATA ATCATTGCAT GGICCACACA GGAGAGAAAC CATACAAATG
TGAGGACTGI GGIAAGTGIT TCACTTGIAG CICAAACCTT CGTATCCATC AAAGGGTCCA CACAGGAGAG AAACCTTACA
AGIGIGAAGA ATGIGGIAAG TGCITTATIC AGCCTTCACA ATTICAGG

SEO ID NO:2072: (Length of Sequence = 284 Nucleotides)

TCTTGTCTTC AGACCCCTTT GCCGTATTGT CCCTCCTAAC TGGGACCTAA GCTAAGACTC AAGGGCTGCT CCCATGCCCT
TCAGTATCCC CCATAAAATC TAACTACACA TTAGAAACTC AAAGAATAGC ATAGGCATGA TCCATCACCT GCAACAGAAG
CAGTGAGGAG ACTTAAGCCA GGGTTCCTAC AAGRATTNC ACCGACCNTT CCTGCATCTC TGNATGCCGG ACTCCTAAGC
ATTTACTCAG ATTTTAAACA GCACATAATG CCATGGCGAG GATG

SEQ ID NO:2073: (Length of Sequence = 270 Nucleotides)

GEAGCGATAC GCCCCTGTCG CGAAGGACCT GGCGTCTAGA GATGTGGTGT CTCGGTCCAT GACTCTGGAG ATCCGAGAAG
GAAGAGGCTG TGGCCCTGAG AAAGATCACG TCTACCTGCA GCTGCACCAC CTACCTCCAG AGCAGCTGGC CACGCGCCTG
CCTGGCATTT NANAGACAGC CATGATCTTC GCTGGCGTGG ACGTCACGAA GGAGCCGATC CCTGTCCTCC CCACCGTGCA
TTATAACATG GGCGGCATTC CCACCAACTA

SEO ID NO:2074: (Length of Sequence = 278 Nucleotides)

GCACATGCCA TCAGTCCTGG CIAATTTTTG TATTTTTAGT AGAGACGGGG TTTCGCCATG TTGGCCAGGC TGGTCTCGAT
CTCCTGACCT CAGCTGATCT GCCCACCTCG GCCTCCCAAA GTGCTGCGAT TATAGACAGG AGCCACCGAC CCCGACCCTC
TCTCACTTCT CAAATCTCTT TCCTTTTTCC ACCTTCTAGG TGTCAAAGAC AGTGGATGGT CTCTGAGGTT CAAAACCAAG
CTGACCGGGT AAGTATTTAC AGCAAAGCAT CCAATGGG

SEC ID NO: 2075: (Length of Sequence - 232 Nucleon des)

GICICIAGGA ITCACICAAA CCCAGGATCA CGGITTIGIA ATGITATCAA GGCATGATTI TGGATTICAG AGCTGGCCCA GIGAACAACA AGCAATCAAG CATTCCITTC TCTTTCTTTC TCTCTCTCAC ATATACACAC ACACTCTTTC TCTCTCACGT

TACTITCACT GICACTITCT CICIACIGGA TAACAGGCCA AAAGTACIGG CACTCATCIT TCACTITCIT CC

SEO ID NO:2076: (Length of Sequence = 223 Nucleotides)

GICACGAGGI CAGGAGATCA AGACCATCCI GGCTAACACA GIGAAACCIC ATCTCTGATC TATTCAGGGC TCINACITCI TCCTGGITTA GICTIGGGIG GGIGIATGIG TCCAGAAATG TATTGATTIC TICTAGATTI CTAGTITATT TGNGTAGAGG TGITTATTCI CIGATGGIAG TITTGTATTIC TATGGGATCA ACGGIGATAT GCTCTITTATC ATT

SEO ID NO:2077: (Length of Sequence = 323 Nucleotides)

GTCCCCCTTC CCCTCTTGTG AGACCAGGCT CTGTCTCAGG AACAGGCCTG AGGGAGGAGG AGCCACGTTC CTCCTTCCTT
GGAGCCCTGA GGTGGCCAGG CTGTCCCCAC ATAAAGCATG ACATCCAGGT GCCAGGTGGC TAAGAAATGG AGCCTGAGGC
TGCAGGTCAC CACCTGTACC TCACAGATGT CCATTCAGAG GAAAGAAGGG TGCTCCAAAC GCCAGGCCCC CAAGGAGCAC
AGACTCAGGG TCCAGGCAGG TTCAGTGCTA GTAGGCAGGT GGGCACTGCT GTCCAGGAAA ACCTGGTGGG CAGCTGTTTT
CCC

SEQ ID NO:2078: (Length of Sequence = 310 Nucleotides)

AATTIGCAGI IGITAAATCA AACCIACIGA CATITATAGI CCCTTACTIT CICITCITIC TICCATIGIA AATGICIGAA
ATGICGIACA GICATACTIC CCACTGIATI TITAGGITIT ACTCICATAC TICAATAATC ACTACCACCC TITATITCAA
TAAAAGITIT AAGICAGIGC TGATTITITG GTAGCICCCA TITICIGATA TATITGICAT GTACATATGC AAGIGTATGI
AATGIAGGIG TGCATCIATA TATACCCACA TATACATATA TACATATACA TATATATGIC CATATACACG

SEQ ID NO:2079: (Length of Sequence = 281 Nucleotides)

GAGACCTGCC AGAAGATTAA AAAAAAGAAT GAGAGAAAAG CCCAGTTAGT GGTGTGCAAA CTTACTTCCT TTAAATGTCC CATGGATGTA GGACAGTGCC ATGTTTCAAG ATGCCTGTGA GCTAGGTCTT CAAGATTTAT AGAATGTTAC TTATGAACAA AATATAATTA TTTATGGTAC AATTCTTGTA CTTTAGCAAA TCTGGAGTTA GTTCATAGTC AAAGTCAGTT AATATTTCTT AGAGGAAAGT TTTGGCTTTT TGTGGCAACA TTTTTATAGC T

SEQ ID NO:2080: (Length of Sequence = 311 Nucleotides)

ATTAAAAAGA ATATTATTTA TTATCINCTT TATTAATACT CACATGIAAC CTTTGCTTTT TACACAAAAG TCTGCTTTAG
AAGAATGCCT CCNCGGCTTA TCATGCCCAA TGGGGCTTTT TGTTTCTGGA CCACTTCCCC TTTCTCCACC CCCACCCCCA
CATCCAAATT ACTCTTAACA TGTTCACAGA TACCACGNAT ATTTTGTAAA CAAGNITTGG GTTACTGGAA CTTGATTTCA
TTAACATCCC ACTTCAAAAT GGAAGGCAGG TGGAGGCAG GGTAAGGNAA TAGGGGGAAA GAGGCCAAGA G

SEO ID NO: 2081: (Length of Sequence = 207 Nucleotides)

GGACGCACGC TCGCTGCCAT CACCGCTGGG TGGTTTTTC CCCCTAACTT TTTACTTAGC CTTTTTGGTT TGTNTCCCCA
CCCCCACCTC CTCACCCCCT TTCCAGTTCT TCTTCAGGCC CCTCCCAGAC GCACCCCAGC GGCCCCTGCA GCCCCTGCCT
CCAGCCTCCA GCCTCACCTT TGTGCCCAGA CTCGCATTTG GAAGACT

SEQ ID NO: 2082: (Length of Sequence = 260 Nucleotides)

TTAAAAGAA GIGCATACIT ATTIGCAAGG AAAACAAATG GAATACACAA AAATTITAGA ATATAAAGAC TITTITINCAT
TTATGIATGI GITTACAATT CAAAATAATA AAGCTAGITA AAAGICAATA CATATTAGAT ATATTCAAAT ATTITINCCAA
ATAAATTICG ATCTTATCAG TTAACACCCA TAGCAAAAGA CTAAGGAGTA TTIGTATAAC ATTAGGGTAT TTGACCTCAT
ATTCIATTCA TTIGGGTITA

SEO ID NO:2083: (Length of Sequence = 257 Nucleotides)

AGITTCATAT GITTATTAAA CCAAGCATGA GGCCCTTCTG TGCACAGGGC CCTGTGTGAC GGCATGGGAG GCGTGCTCAT GAGGCTGGGC GTGCCCGCA GAGACCTTTC TAAAATGCAG ATTCACGACT CTCCTCCTCA AGCCACCCTA GTGGCCAGTG GGGTCATTTC GGATCAGAGA TTCCTGGAAT AGATCTAACT AAGATGGTAG ATATTATTTT AAATAATGCC TTTTTNAGGA ACTAGCTGCT AGGCTCT

SEQ ID NO:2084: (Length of Sequence = 255 Nucleotides)

TATTATACAG CATTGTCAAG ATTATTTGAC AAAAGGCAGT AACAAGCCGA AGGAAAACAC ATTTACAAGA AGCTGAACAA CITGTATCAG AACATACATC AAGGTGAAGA GITTCGGCCC TCTTGGTATA GGGTATGTAT GTGTACATCT CCAATTTTGA ACAATGATGA CATAAGGNCT AATACTCTAT TTATTCAGGN GACCCCATAA TCAGGATAAT AGTAGGCATT CAGAGTAATA AAGTGATCAC AGTTG

SEO ID NO:2085: (Length of Sequence = 290 Nucleotides)

GGACGCACGC TCGCTGCCAT CACCGCTGGG TGGTTTTTC CCCCTAACTT TTTACTTAGC CTTTTTGGTT TGTGTCCCCA CCCCCACCTC CTCACCCCCT TTCCAGTTCT TCTTCAGGCC CCTCCCAGAC GCACCCCAGC GGCCCTGCAC GCCCCTGCCT CCAGCCTCCA GCCTCACCTT TGTGCCCAGA CTCGCATTTG GAAGACTCCA CCTCCCGCCC AGGCCTGGGC TGTTGGGCGG TTGGAGATTC AGGTTTTAAT CCACACAAGC CCCAGTGAGG GGTGAAGCAT

SEO ID NO:2086: (Length of Sequence = 342 Nucleotides)

AGITICATAT GITTATIAAA CCAAGCATGA GGCCCTTCTG TGCACAGGGC CCTGTGTGAC GGCATGGGAG GCGTGCTCAT
GAGGCTGGGC GTGCCCGCCA GAGACCTTTC TAAAATGCAG ATTCACGACT CTCCTCCTCA AGCCACCCTA GTGGCCAGTG
GGGTCATTTC GGATCAGAGA TTCCTGGGAAT AGATCTAACT AAGATGGTAG ATATTATTTT AAATAATGCC TTTTTGAGGA
ACTAGCTGCT AGGCTCTCTA TCCTGGGAGA AGAAGGTGAA GGTTCCGCAA TATCAATTTT CCCAACTCAG CCAAGATTTT
CCCAGCATCT NCAGGACAAG TG

SEO ID NO:2087: (Length of Sequence = 306 Nucleotides)

TATTATACAG CATTGTCAAG ATTATTTGAC AAAAGGCAGT AACAAGCCGA AGAAAACACA TITACAAGAA GCTGAACAAC
TTGTATCAGA ACATACATCA AGGTGAAGAG TTTCGGCCCT CTTGGTATAG GGTATGTATG TGTACATCTC CAATTTTGAA
CAATGATGAC ATAAGGNCTA ATACTCTATT TATTCAGGAG ACCCCATAAT CAGGATAATA GTAGGCATTC AGAGTAATAA
AGTGATCACA GTTGAATGAA CGTGTTCACC AAAAGTCTTA GACCAACCTG ATATCATCTT ACACTT

SEO ID NO:2088: (Length of Sequence = 326 Nucleotides)

SEC ID NO: 2089 (Length of Sequence = 291 Nuclearides)

GGGTTTCCCT TTCCACTCAT CGGAGATTCA GAGGGATGAG CTGGCACCAG CTGGGACAGG GGTGTCCCGT GAGGCTGTAT CGGGTCTGCT GATCATGGGA GCGGGGGGAG GCTCCCTCAT CGTCCTCTCC ATGCTGCTCC TGCGCAGGAA GAAGCCCTAC

GGGGTATCA GCCATGGCGT GGTGGAGGTG GACCCCATGC TGACCCTGGA GGAGCAGCAG CTCCGCGAAC TNCAGCGGCA CGGCTATGAG AACCCCACTT ACCGCTTCCT GGAGGAACGA CCCTGACCCG G

SEO ID NO:2090: (Length of Sequence = 293 Nucleotides)

TTATGTGGAA TACCACACGC CCTGGTACAT GGCTGAACTC TTCCCCTTCA TCCTGCTTGG GGTCTTCGGG GGCTTGTGGG
GAACCCTCTT CATCCGCTGC AACATCGCCT GGTGCAGGAG GCGCAAGACC ACCAGGCTGG GGAAGTACCC GGTGCTGGAG
GTCATTGTGG TGACTGCCAT CACTGCCATC ATTGCCTACC CCAATCCCTA CACACGCCAG AGCACCAGGG AGCTCATTTC
TGAGCTGTTC AATGACTGTG GAGCCCTTGA GTCTTCCCAG CTCTGTGACT ACA

SEQ ID NO: 2091: (Length of Sequence = 274 Mucleotides)

CTTTTGGAAT GGTCAAACAA TTTAAGTCAA ATGITTTAAT GGTGCAATTA AAATAAGGGT TCAAACATGI TTTCAATATA
TTAATTNCTT TAAAGTCATG TTCAGGCAAG GTGCTGTTA AAAAACCACT ATTAGCTTTG TCCACACATG TAAGTTATCA
AAAGTTACCA AGGTAATTTT GACGTTGAAT GCAGCTTTAA ACAATAAAAA AATGGTATTA GGTTTACTTC TCGAAGCAAA
GAGAGCCCCC AACCTTGTAA ACTAAACATT CTGA

SEO ID NO: 2092: (Length of Sequence = 290 Nucleotides)

GETACETAGE ACECTEGECC TETECTOCGE COGENICTEG TCAGACACAA TCATEGTCTC CACCACGAGE TETECAATEC
CTEGNAGEST GETITECTCC AGETCCAGGA GEGCAGATCC ATGGGCGATG GTCCTCCTGA GCTCCAGAAG GCTACGGAAG
GAGAGGGAGG CAACATGGGG CTTCCCCCAG CGCTCCGTCT CCTCCTCCAC GTCCTCCTCA AACTTGATCC AGCGGCCGT
CTCCCGCCAG TGGGGCTCCT GGCTGCGGTC CAGCATCAGC TCGTTCAGCT

SEQ ID NO: 2093: (Length of Sequence = 323 Nucleotides)

AGCTACACTG ATACAAGTGG ACCTAAAGAA ACGAGITCCG CTACTCCGGG ACGAGACTCC AAAACCATCC AAAAGGGATC AGAAAGTGGG CGTGGGAGGC AGAAATCTCC TGCACAGAGT GACAGCACAA CACAGAGAAA AACTGTAGGC AAAAAACAAC CCCAAAAAAGGC TGAGAAGGCA GCTGCTGAAG AGCCTCGTGG AGGCCTGAAG ATAGAAAGTG AAACCCCTGT AGACTTGGCT AGCAGCATGC CCTCCAGCAG ACACAAAGCA GCCACCAAAG GCTCAAGGAA ACCCAATATA AAGAAGGAGT CTAAGTCTTC

SEO ID NO:2094: (Length of Sequence = 255 Nucleotides)

AAGGATGITT TEGTITCCCIG CCTCAAGGCC GGCCATGIGG GAGTIGIATC TGTGGAGTIC ATTGCCCCAG CCTTGGAGGG
AACGIATACT TCCCATTGGC GTCTITCTCA CAAAGGCCAG CAATTIGGGC CTCGGGTCTG GTGCAGTATC ATAGTAGATC
CTTTCCCCTC CGAAGAGAGC CCTGATAACA TTGAAAAGGG CATGATCAGC TCAAGCAAAA CTGATGATCT CACCTGCCAG
CAAGAGGAAA CTTTT

SEQ ID NO:2095: (Length of Sequence = 305 Mucleotides)

GCACTCCAGC CTGGGCAACA AGAGCGAAAC TCCATCTCAA AAAAACAAAG AAAGAAACTN CTGAAGTCGG GGGCTGCTAG
AGGATTITCA GGAAGGGTCA ACACAGGCCT CACTTCCAGT CCCTCATTTC CCAGCTCACA GAGTCACCAG AGGGTGAGAA
GCAGAACGTG CCAGCAAAGA GGGAAAAGGC CACAGAACCA CCTTNTCCTC AATTACAAAG GGGTGCATTT ÇAGAGGACGG
AATAGGGATG GAGAGGAGGA ***AACACCTGC CCAGGAGCCA GATAAATTCA AAGTCACCAA GATGG

SEO ID NO: 2096: (Length of Sequence = 327 Nucleotides)

CTAGATATAA CTACCCTTCT CTATTCCTCA CCTAAATCCT TATACTGCTG ATGACTTTGG AAAATAGTAC AGGGTTTTAC
AGTCTAATCA TGACAATACA TCTCCAGGNT CCTTGAGCCA AATACATTCC TCAGAATACT TTTTTTTAAAA AACTGAAATT
GATTACTTGT ACTTTGTCAT CACCAAAAAT ATCTGTAGCA AGACATACTG TTCTCAGCAT CCACTTCTAC
ATTGTAACTC ACAGTAGACT ATGCCTCCTA CTTTACTGAA AAGATACAAA CCATTACCTA GCAATCATTC TTCCACCTTA
AACATAT

SEQ ID NO:2097: (Length of Sequence = 296 Mucleotides)

CACCCTGCTG AGGTCAATTT CGTCACTGAT GCCTCGGGTC ACATAGGCCC TGATGACCCA GATTTCACAC AGAGGTCAGT
ACATCGGTCA ACTTTCCTCC CAGGAGGGGC CGGGGCTGGT GGGCCATGCC CACTCCGTGC CACATGCCTA GCATTCAGAG
CTTTGTAAAGG AAGCCCTGTT CTAAATGCTC AGGTCCCACC CTTCCTTGTC AAGAGAAGCC ATGGGCTTCC TGCTCCTGTG
TCACAGTGTG CCACTTGAAG GGTGGCTCTT CCCCATTCTT CTTCCATGGG GGCCAG

SEQ ID NO:2098: (Length of Sequence = 324 Nucleotides)

ATTGGITTIN TIGAGIGITI TCITCTITIT NITTGITTIC AACATACTIA CIGCGIATAA AGTCATGCAA AGAAAACAGT
GCAGACAGTA GATCCTAGTG GATGIGCCAA GGIATTCCAC TCAGAGTCAA TCCCAGGGAA AGAGGGAAAG AGGAAAAGAA
AGAGAGAATG CGAACCCGAG GCTGCAGGAT GAGGCATGAA GAGTAGAAAT TCCCAGTGCT TIGCTGTGGT CATCAGACGC
CAAGGGGAGA GAGGCAATNA AGACACACGC TCACGGGCCC CCCAGAGGTG GGTGGGGGGT GCTGGGGGGC GGCACACAGA
TATG

SEO ID NO:2099: (Length of Sequence = 299 Nucleotides)

GAAACCGICA GIAAGGAGCI CITITATCTIT ACCITCCCAC TCCAAACCIA CITGCIAGCI GITCITATCA TIGCCICCIT TITCICIGIC ACAAAAATGI GITCCATCIT AATGAACACA TITCATIAAT GICCITCTIA AIGAAGGACA GICCCTITCC CIGIGCIGIG AATCCCATAG TAATGACAIT AGCITAAGII TICIGAGCAC TIGCIATCIG CCAGITCCIC CCATGAATTA TCTTGCTTAA GCITTGCAGI ATACCTGIGA AATAGGIGGC AGIAGITGIC CCACCATAC

SEO ID NO:2100: (Length of Sequence = 308 Nucleotides)

GECAGCITAT TITIGATIGG TICACAATGI GGATCAAACA GGAAAATCIG TIATCATCAA CAAGACCAGC AGCACCAGAA
TMINCCGAGI CITICCAGCAG TGCAGGCICC TCAGGNICGC TGICCCGCAC CCATCCACCI CICCAGAGCA CACCCCTAGI
CICAGGIGIG GCAGCIGGCI CICCAGGCIG TGIGCCITAT CCAGAGAATG GAATAGGGGG CCAGGIIGCI CCCAGCAGCA
CCAGCIACAT CCICCITCCA CITIGAAGCIG CAACAGGCAT CCCGCCTGGG AAGCAATCCT TCITIAAT

SEQ ID NO:2101: (Length of Sequence = 291 Nucleotides)

GATGATGATT GCATGGGGIT TGATGCTACA CTGGATCATA GAGTGTGGGI TCTTTCTTAC ATGINITGGI AGATAAATGT CATAGACTGA TCCTGAATCC ACATCAACAG CATGGAATCC AGCACAGGAT CCATAGATCA CTTTCAACCT CTGGCCTTCC TCAACAGTGA GATCCACCAG TAATGGCTTA TGTACCAATT CTCCAAATGA CTTAAAGGCC ATAAATTTGG TGATATGGCT TTGGAGCCCA CGCATAGGAC TTCCACAGAA CTTTTTCAAA GGCAATCACC C

SEO ID NO:2102: (Length of Sequence = 323 Nucleotides)

GATGATGATT GUATGGGGIT TGATGCTACA CTGGATCATA GAGTGTGGGT TCTTTCTTAC ATGTGTGGT AGALAAATGT CATAGACTGA TCCTGAATCC ACATCAACAG CATGGAATCC AGCACAGAT CCATAGATCA CTTTYAACCT CTGGCCTTCC TCAACAGTGA GATCCACCAG TAATGGCTTA TGTACCAATT CTCCAAATGA CTTAAAGGCC ATAAATTTGT GATATGGCTT

444

TGGTGCCCAC GCATAGACTT CCACAGAACT CTTCAAAGCA ATCACCAGAA ATTTGATTCT TTCATATTTT ACAACTTTAT

SEO ID NO:2103: (Length of Sequence = 270 Nucleotides)

CCTITCACTC CCCCGCCCTG GGCCTCTGCT CTCTTGCCTG GNTTCCTTCT TTTTTGAGGG AAAGAGGGTG GGGCTGCAGG CAGTCTACTG GCAGGACGGG AGGCTGAGTC CTCAGGGTCT CACACCCTCA GTGCTGATGC CATGCCAACT GCCTGGGACA ACACCAACAC GTAAGGACCT AATTAAACCA AACCAGAGTC GGGTGTAGAC CAGCCCTGGG ATTTCCAGCT NTGACTNGGC CAGGGCACAC GTTGGTCTCG GCAGTGGCTG

SEO ID NO:2104: (Length of Sequence = 367 Nucleotides)

SEO ID NO:2105: (Length of Sequence = 288 Nucleotides)

GCAAAATTAC TGAAACTACT ACTTTGGGCT CAGAACGAGC TGGACCAGAA GAAAGTAAAA TATCCCAAAA TGACAGACCT CAGCAAGGGT GTGATTGAGG AGCCCAAGTA GCGCCTGCNC TTGCNTGGTG GATCCAACAC CAGCCCTGCG TCGTGGGACT TGCCTCANAT CAGCCTGCGA CTGCAAGATT CTTACTGCAG TAGAGAACTC TTTTTCTCCC TTGTACTTTT TTTTGACCTG GNATCTTTTT ATAGGGAAAA ATGGCCTTTG TAGGCAGTGG AAAACTTG

SEO ID NO:2106: (Length of Sequence = 349 Nucleotides)

GCAAAATTAC TGAAACTACT ACTITIGGCT CAGAACGAGC TGGACCAGAA GAAAGTAAAA TATCCCAAAA TGACAGACCT CAGCAAAGGGT GTGATTGAGG AGCCCAAGTA GCGCCTGCCNC TTGCNTGGTG GATCCAACAC CAGCCCTGCG TCGTGGGACT TGCCTCAGAT CAGCCTGCGA CTGCAAGATT CTTACTGCAG TAGAGAACTC TTTTTCTCCC TTGTACTTTT TTTTGACCTG GCATCTTTTT ATAGGGAAAA ATGGCCTTTG TAGGCAGTGG AAAACTTGCA AGGAAAGCTG CCGTCTCTTT TGGCAGTCTT GATCCAGAGC CTGCACTCTG GCACTCGCT

SEO ID NO:2107: (Length of Sequence = 329 Nucleotides)

GIGACAAGCT CCAGAAGCCC GCNTCGCAAC ANCCAGGAGG GCCAGGCCAC TCCAGGCAGG AGGCAGTGGG CTGGCAGCCA
CCCTGGGCAC AGAAGAGCAG ACGCAGACAG TGCTGGGCAA CGAGGGGGTT TNTTCATGGG CCCGCCTGCC CTGTCCCTCC
CCCCAGGTCC CCACCTTCTA GGGTTAAAGT GCAGCTGGGA GGGAGGAGGC AGGCAGAATT NGGGAGCTAG AGAGAGCCCA
AGTGAACCCT GACTGTCCAC GCAAGTCCCA TGTCCTCCTC GTCCTGGAGT TCCTCGAGGT TCAGCGAGCC CATCCCGCCT
AGGGCCTCT

SEO ID NO:2108: (Length of Sequence = 261 Nucleotides)

TTTTCATGC AGCCTGAGCA GACTAAGACA GCAGCTAACA CAGCAAGATC ATACCAGTTA ACCTTCCTGG TTAGAAGACC
TGAGCCTCCT GACTTCCGGT CACTGGATAC TCTCTGTNAG GCTCATGATT TAAACTCTAT AGTCACTCT GGCTTGGAAA
CCTCTAACTC TCTCTGCCTC TTGACAGTGT TCCCTCCAAGG GAGTCCATTA GCCAGGACTA GGTTACATGC CCCTGTGTTA
GCTGTGAGGG ACAAGGCAGA G

SEQ ID NO:2109: (Length of Sequence = 329 Nucleotides)

TTTTCATGGC AGCCTGAGCA GACTAAGACA GCAGCTAACA CAGCAAGATC ATACCAGTTA ACCTTCCTGG TTAGAAGACC
TGAGCCTCCT GACTTCCGGT CACTGGATAC TCTCTGTTAG GCTCATGATT TAAACTCTGT AGTCACTGCT GGCTTGGAAA
CCTCTAACTC TCTCTGCCTC TTGACAGTGT TCCCTCAAGG GAGTCCATTA GCCAGGACTA GGTTACATGC CCCTGTGTTA
GCTGTGAGGG ACAAGGCAGA GAAATAACTG CCCAAGTTCA GCTTCCCATA ATGTTTGGGG GATGCTATGA CTCAACTTTG
ATCTATTTT

SEO ID NO:2110: (Length of Sequence = 271 Nucleotides)

SEO ID NO:2111: (Length of Sequence = 315 Nucleotides)

GGCTTGAGCA GACAGAACGG GGAAGACTCC ACTCTGTCCC GAGGGGCCAG CCGCACGINC NCCCAGGGCC ACCCTGCCCT.
GAGGTCCTTG TGTGGCCGCC CTGGCTTGGC AGCCCTGCCCC ACGCTGCCCC CGCAAACAAT GGTGTGTGCG TTTTTTACAGC
CCTTTTTAGG AACCCAATAT GGGCATAAAT GTAACACCTG TAGCGGGGGC AGATTCTCTG TATGINCAGT TAACAAATTA
TTTGTAATGT ATTTTTTTAG AAATCTTAAA ATTGCCTTTG CACTGAAGTA TTTTCATAGC TGTTTATATC TCTTT

SEO ID NO:2112: (Length of Sequence = 275 Nucleotides)

GCAAGANAGA CCAAAACCTA ACCTGAGTTA CAAGAAACAA GACAGTAATG GCTATAAAGG GAGTGACCAG GAGCAACTGG
GACACTCCTT TACCTCCCAT ATCCAATGTA TGTNTTTCAC AGAAAAACAA CAAAATTAAC AAATTCACAA AATACAACAG
CTAGAATTAC AAAATCCATT CATCCAAGGG TGGTAGAAGG CAGGATGGNA AGGTGGAAGG GTAAATNGCA CAGGGAGAAA
AACAAAGTGT TCCAATCAGT CCAGGCACAG GGACT

SEO ID NO:2113: (Length of Sequence = 227 Nucleotides)

GGCCATCAG TGGGGGGTGC TGTCAAAATT AGTGAAATCA GATACAGTTG ATGGGCAGGG AGGGTGGGGT AAGAGACAAC TCCAGTGCAG TGCCAGGTGG GCAGGCTCCC ACTGTTCACT TGAGACGCTC CTCCCCACTC AGGTGGGGAC AGGGGACACA CTCGCAGGGC AGGCATTCT GGAGGTGTGG GTACAGGTGA GGGGAAATGG GAGGCACAGC CAGGAGT

SEO ID NO:2114: (Length of Sequence = 339 Mucleotides)

GECGCATCAG TGGGGGGTGC TGTCAAAATT AGTGAAATCA GATACAGTTG ATGGGCAGGG AGGGTGGGGT AAGAGACAAC
TCCAGTGCAG TGCCAGGTGG GCAGGCTCCC ACTGTTCACT TGAGACGCTC CTCCCCACTC AGGTGGGGAC AGGGGACACA
CTCGCAGGGC AGGGCATTCT GGAGGTGTGG GTACAGGTGA GGGGAAATGG GAGGCACAGC CAGGAGTGGG GCAGGAGGGA
AGGCCAGTTC GTNGGCAGGC TGAGGAGGGA ATATNACCCC CCTCAAGTCC CCAAAGTGGC AGGCAAGTTA AGGGGCCCTG
GATGAGGTGG CCCCTCATG

SEO ID NO:2115: (Length of Sequence = 262 Nucleotides)

TEGRACACAA AATTCCCTET NITAACATTE TACATTCGGG GCCTAGCTGC CCTTGAGGAT GTCCTAGTTA CACCCTCTCT GATACCTGTG GAGTTTAAGC ACCATTCCTA CCTCTGTGTC CCTTTTGGAGG GCGTGCAGTG GAAGGTCTTA AAGGGGAATC CTTGCTCTGC CTCTGTGGCT TITTGTTTGG GAAAGGGAGT TNGGATTNGA GGATTTAGAT TINAGGTCAT GATGTCAGAG CACACCAGGA ACTCCCAAGG CT

SEO ID NO:2116: (Length of Sequence = 153 Nucleotides)

AAGAAGCGAA GAGGATTCGT GAGCTGGAGC AGCGCAANAC ACGGTGCTGG TGACAGAACT CAAAGCCCAAG CTCCATGAGG AGAAGATGAA GGAGCTGCAG GCTGTGAGGG AGAACCTTAT CAAGCAGCAC GNGCAGGAAA TGTCAAGGAC GGT

SEO ID:NO:2117: (Length of Sequence = 231 Nucleotides)

GAATATAATG TGTATCTINCA AGGINTCGATC CACCCTINCC CATCCTINGG AGCTCAGAGA TTCTTGGGAG CTGAAGGTCT
TCTTAATGTC AGATCAGCAA CCCCAATCTC AGGCAGCTCG GATTCGCTGC TCTCGATCTIN CCGCTGGCCA ATGTAAAACC
AGACGCAGGC GACCCAGTGC GCGACAGGGC GAACACGGCC ATGAGCAGTG TCAGCACCAC GGCGCTGTAC T

SEQ ID NO:2118: (Length of Sequence = 309 Nucleotides)

SEO ID NO:2119: (Length of Sequence = 308 Nucleotides)

SEO ID NO:2120: (Length of Sequence = 237 Nucleotides)

COGCTCTCCT GACGGGAGCC CACTAGGGGG TCCTCTTTCA TCTTTGGTGT GGCCTTACCT CCCACCAAAG AGATCCGAGG CTTACTCTTC TCTCTCTGGG ACCAGCATGA CCCAGGAGTC CTTCCAGGAG AGCTCTGTGA AGGAGCTGAG GCGGCTGGAG GACCAGCTGG CCGGCCTGCA GCAGGAGCTG GCGGCTCTGG CACTGAAGCA GAGCTCGGTG GCGGAAGAAG TGGGCCT

SEQ ID NO:2121: (Length of Sequence = 224 Nucleotides)

COGETCAGAG COTGAGGCCA GAGAGGTAGO AGOGGAACTN ACAGGGAGGC CAGGGGCAGA GOTGACCOTG GAGAGGGATC
CTNATGTCCT AGACACATGG TTTTNTTCTG COCTGTTCCC CTTTTNTGCC CTGGGCTGGC CCCAAGAGAC CCCAGACCTT
GCTCGTTTCT ACCCCCTGTN ANTTTTGGAA ACGGGCAGCG ACCTTCTGCT GTTCTGGGTG GGCC

SEQ ID NO:2122: (Length of Sequence = 202 Nucleotides)

CAGCTGCAGC TTCCAACCAA GAAAACCTCA AAGCATTAGG GAAGGAGCAG GTGTGGGGCT GGGGTGGGGA GAATCCCCTA
AGCTCCAGGG CCCAGGGTCT AACCTGAGAG GTCGGGGCTG CAGGAAGCTG GGGAAGACGA
GCCTGCCCCC AGCAGAAACA GCAGGTCTCA GCGGCTACAT GT

SEQ ID NO:2123: (Length of Sequence = 359 Nucleotides)

ATTCTCCTCT GITCTCTTGA TGTGTAGGGA ARTITUTAGA ATGACTCTGA TAAAAATCTA AAAGAGAAAC ATCGAATCCT
AACTGGCTGT GTGACCCTAA AACCTTACTC CGTCTCTTTG AACCTCAGAT TTCTCAGGGC TTGGCACATA SCAAGCATTT
CATACTCAGA AGCTGGTACT ATTACTGTTG TGTTTTGTGG GGGGAGGTTT GTTTGTTTTG TTTGGAGACA GGATCTGGCT

TTGTTGCCCT GGCTGGAGTG AAGTGGCGCC ATCATAGCTC ACTGCAGCNT CGCCCTCCTG GGCTCCAGCG ATCCTCCCGC CTCAGTCTCC CGAGTAGCTG GGACCACCTG CGGATGCCG

SEQ ID NO:2124: (Length of Sequence = 233 Nucleotides)

GAAACGCCGT GCATCTCTTG TCTGTTGGCA GCGAGCACAT CGTNTGGAGA CACGAGTTTC TAAGCAGCTG GCACGAGGGC
TGCTGACGGC ATGGGTCGTG CTTCAGGGTG GCAATACCTC TTAGGAACTT AGGGCAGGAA GCAATACTTC AGCATTGAAT
GTGTGTAAAT AGTTGCTTTG AGTTGCAATT GCTATTTNCT TCTCAGTCCC AGCTCAGATC GAATTATATA TCC

SEQ ID NO:2125: (Length of Sequence = 241 Nucleotides)

GCCATGGCTT TTGGTCAGGT TCAGGGGGGC TGAGGGGGTG CTCCTCCCCT CCCCCCAGGC ACTGACACAT TGAAAGGAAG CAGAGCAACA ATGACACAGC ACGGATGTGG GAAAGGGGAT CCCCCAACGCG GGCAGGATGG TCCATCTCAC CGGGGTCTCA CCAGGACTCC CCGGTCCCAC CCAGGGCCAG CACGAGCACC TCCCGTTTTC TCCCCAGTGC AGAGCGTGGG GTGACAGGAG T

SEO ID NO:2126: (Length of Sequence = 275 Nucleotides)

GIGIGCCCTC TIGCIGIGIC THACTICATA AGGAGITGIA TCTTCCCACC TGCATTICAA TACTGCCGGI TAGGACCIAA GIAGAAGAGC AGTAAAGGCI GATTGACACA CAGGGGGATG GAGITGGTCC TIGTCCATTC TCTCACCCTT GCTGTGCATG TATCAATCCT TATCCCAGAA GGTACTATTT AGACTGTATA GACTGATTTA GATTACATAC TITAGAGGAT TAAGGAAACC ATAGAGTTTG GGCCTTGGAA CTGTTACTGC CTTGT

SEO ID NO:2127: (Length of Sequence = 296 Nucleotides)

TTCAGCCTTA TCGAAACACA TGAAGCAAAA CCATTGAAAC TGTATGTGTA CAACACAGAC ACTGATAACT GTCGAGAAGT
GATTATTACA CCAAATTCTG CATGGGGTGG AGAAGGCAGC CTAGGATGTG GCATTGGATA TGGTTATTTG CATCGAATAC
CTACACGCCC ATTTGAGGAA GGAAAGAAAA TTINTCTTCC AGGACAAATG GCTGGTACAC CTATTACACC TCTTAAAGAT
GGGTTTACAG AGGTCCAGCT GTCCTCAGTT AATCCCCCGT CTTTGTCACC ACCAGG

SEO ID NO:2128: (Length of Sequence = 322 Nucleotides)

GCATGGGAGG GAGGAAGAGA GGITIGGGGI GCGGIGGCAG GTGATATAGG GAAAGGGCTC ACGITICAGA ATCTGTGAAC
AATTCCATIT TICATCAGAT AGCAGAACAA CTACAACAGC AAAACCTAGA ACATCICAGA CAGCAGCTCT TGGAGCAGCA
ACAGCCTCAA AAGGCCACTC CTCAGGATAG TCAGGAAGGA ACCTTTGGGI CAGAGCATTC AGCGTCACCA TCACAAGGGA
GTAGTCAGCA GCATTTTCTT GAACCTGAAG TCAATTTGGG ATGATTCCAT AGATATTCAG CAACAGGATA TGGATATAGG
AT

SEO ID NO: 2129: (Length of Sequence = 222 Nucleotides)

TTTAGTGGGT CTGGGGTGGG CGCGGCCCCC GGCTAACGGG GCGGGTCTCC TCCTCTAGGC GCAGGAGTGC GCGGTGCTCT CCAGGCCTCC CCGGCTAGGT GGAGCGTGAC ACCGCAAAGC ACACCGTCCT ACCGAGGCGG GGCCCAGGCC CTCCCCAGAT GGAAGTGCCC GGCAGACAGC TGCCCAAGAC CTCACAGAAC AAAGATGGAC AT

SEO ID NO:2130: (Length of Sequence = 191 Nucleotides)

GREGATECT TTATTTCACT GREGOGGGA GGGAACCTGG ACACGGGGG GCACGGGGG TGGENGGCTG REACTCAGGC GGGGACTAGG CAGGGGAAGG GCTGCCCCCA GGCCTGTTGA GGAGAAACTN AGGCCAGCCC TGGCGGAGAC CTAGCCCAGC GGGGTAAGGA GGGTGGGGGA AAACTGGGTC T SEQ ID NO:2131: (Length of Sequence = 280 Nucleotides)

CTGAGTCTTG TCGATCCCGA CCAGGAAGAG CAGCTCAGCC AGGAAGAGGT TGATGCACAG GITCTTGTGG ATGGTGTTGC
GGTCGGTCTG CAGCCCCCGC AGAAGCAGAA GGTGGAGATG CAGATGGCCA AGCAGACCAG GGAGATCACA ATGCCCACCC
AGGTGATGAC CGACAGCAGC AGCTCGTTGA TGCGGCCCTG GTAGATCTCA CGGTGAGCCA TGAGCACAGC GAAGTTGGTG
AGGTGGCTGC AGGCACACGT GGTATGGTC TTGTTGGACT

SEQ ID NO:2132: (Length of Sequence = 201 Nucleotides)

ATCCCCACAC CATTGCCTGC TCCTCCCATG GGGCTTTAGC TCCCCTGACC ATCTGCTCAT GTAGCCTCTG ACTGGGCGCA CAGTGGTGCA GGAGGAAGGA CCGGGAACCC TGTGTGGCTT TGGGCAAGCT GACAAACCCG TCTGGAACTC AGTTTCCCCA GCTGTGAAAT GGGGCCAGTC CCCATGCCCT GCTGTCCTCC T

SEO ID NO:2133: (Length of Sequence = 180 Nucleotides)

GATGAAAATG TIGTGACCAG AGGCTIGCCA TINCCTAACT CTATTIGCCA GAGGAGCAAT AGTTCTGTAT TCGCTAATTT
TGTGTTCACA GAGACTTTAA GGAACATGAC TGTTGGGAAT AACAAGAATT AAAGGTATTT ATTTACTINC TCTATÄTGAT
TGTAATATTA TACCCATACT

SEO ID NO:2134: (Length of Sequence = 302 Nucleotides)

ATGAACAAC GGGACTATAT GAACACTICG GTACAGGAGC CCCCTCTTGA CTACTCCTTC AGAAGCATCC ACGTCATTCA
AGATCTGGTA AATGAGGAGC CAAGGACAGG ACTACGACCA CTGAAGCGTT CAAAGTCGGG GAAATCACTG ACCCAGTCCC
TGTGGCTGAA TAACAATGTT CTCAATGATC TGAGAGACTT CAACCAGGTG GCTTCACAGC TGTTGGAGCA CCCAGAGAAC
CTGGCCTGGT TCGACCTGTC CTTTAATGAC CTGACTTCCA TTGACCCTGT CCTAACAACT TT

SEQ ID NO:2135: (Length of Sequence = 291 Nucleotides)

TCITACCAAT CIGACATICA CIATCAACCA CITCITGACA CATGICATAG AAAAGIGACA TCICITICCC TICAACCAAT ATATCCICCA ACAACATCAA CCICAACAGG TAGCTAGCAT TGICITCIGT TGAAATITAG AGCTGGAAGA AAGGATITCA CAATCICTCT GIGGAGACCC AGGAATCCGT TACCITCIGG GATTITAGAG AGTGTGGAGA GAGATGAGC GGCAGTGAGC CGGGGACCAA CTCCGATAAG AATATGAAGT CAGGAAGTGA GAGAGGAAAC G

SEO ID NO:2136: (Length of Sequence = 282 Nucleotides)

GCTGTACAAG GTCTTTTTCT TTGTTGTCAT GGTTGATTTT GTACATTTCA GCATTTGCAT CATACAAAGG GGGGAGCAAC AGCCATGGCT TTTGGTCAGG TTCAGGGGGG CTGAGGGGGT GCTCCTCCCC TCCCCCCAGG CACTGACACA TTGAAAGGAA GCAGAGCAAC AATGACACAG CACGGATGTG GGAAAGGGGA TCCCCCCACGC GGGCAGGATG GTCCATCTCA CCGGGGTCTC ACCAGGACTC CCCGCTCCCA CCCAGGGCCA GCACGAGCAC CT

SEO ID NO:2137: (Length of Sequence = 322 Nucleotides)

GAATTGACAA CATATTGCCA AAATCTTAGT GGATTTTGCC AACACTATTC TGCTGATAGG AAAAAAAGAAT CATTCACCTA
CTTTCCAATT TAGCCACAAA ATAGGCTCTT TTTTCTTCAT TACTACTTTA ACCAGTATGT TAATACTGAA AATAGGTATA
AAGAAATCAC AAATAACCTT CTTCTGTTTG AAGGAAATTT AAAATAGCAC ACTTAAATTG AAAGTNAACG CAACTTTAAT
TCACTACTGT AATTTTTAAA TGTCTGTATC ATGTAGTGTT TGCACAGTTT TAACCTTAGT TTACCATCTC TTACTCCTTA
GT

SEQ ID NO:2138: (Length of Sequence = 305 Nucleotides)

ATGCTGAGTC GCAGTTCCGA TGTTCTTATG CTTCCATCAG CAAATCTCAA TTTGTCAAGA TTCATGACAG ATTCTTCCCC
AGCGTTTGGT TTAATTGGAG GGACTTTATC TCCAGGCCTG CATGACTCTT CGATGCTCAG GGCACATGCC CGACCAAAGA
CAACCAGGTC CAAGAGCGAG TTTNCCCCGA GGCGGTTGGC ACCATGTACC GAGGCACAGG CGGCCTCCCC ACAGGCGTAC
AGGCCGGGCA CAATCTGATC CTGGCCATTC ACGTGCCTCA GGACCTGCCC CTTGTAGTTG GTGGG

SEO ID NO:2139: (Length of Sequence = 263 Nucleotides)

CGGCCCCCAG CAACAGCTTC AGCCCTCTCC ACCAAGCTTG CCATCAAGGA GATTGCACCA CTGCACTCCA GCCTGGGTGA CAGAGTTAAG ACTCTCATGG GGACACTACT GTTCAAAAGG CCCTGGCCAA ATAACTCCCA AATGAAACAC TCAACCCAAG GATGTTTCA GCCCACTGTT AGTGAAGCTG GGTGCAGAAT GCAAAGCCTC TAAAAGGAGA GGATACAAAG TCAGGTGAGT AGGGGCCATT GGCAATGCTC AGA

SEO ID NO:2140: (Length of Sequence = 255 Nucleotides)

CTGCTTCANT CTGCGCCCCT CAGCTGTGGC TTCCCGGCAT GCCCTGTGAC CCCAAGCCGC AGGTACAGGA AAGAAGTTTG
TGCTGGGGGA CTCAAAGACC CAGAGGTTAA TTAACAGGAA CCAGGGCCAG GGGCCTTCAT CTAGAGGTCA GTGGAGTCTC
CAGGGCACTC ATCACTGTGG CTGGGAGACT ACAGTGTCTC GGCTGCGGAC TTGTGGAAGA AGAGGGGGAA GGATGGGAAGA
AGGGGTGACT GGATG

SEO ID NO:2141: (Length of Sequence = 355 Nucleotides)

TITAATIAAA TACCACITCA TAATGITATI TGCACCIAGI ACITITITIT TITTAAATAA GACATGCCAI AAGICGIGAA GITAACAAAA TATAAGCATC CGCACAGAAT ATATTCITAAG GIGACTTCAT TITACACCGCI TCTCAGAGAA ACACACAAGI AACCITITIGI CIGCCTATCA GCCAGTGTIG AAACAGCTIT GGAATTCACA TGGAAGGCTIG CCGGGCTGGI TCCCCAACAC TMGCCTGATG GAGTCCTGTA TCCGMACCGT GCCGTCAAAC TGGCTGGTTT CCACTAGAAA AGCAATGGAG AGTCAGCTCT CCCTTCTTTA CCCAGCGTTC AACTCCACAC TGCAA

SEO ID NO:2142: (Length of Sequence = 391 Nucleotides)

CTGCTAAGTG CCATGAGACC TTAGCAGAGG CTGTGGGTGC CCCGCCCCAT TCCCTCCACT CACTCTTCCT TGCAGGTCGA
CCTGCCCTTC TTTGCTGAGG CCTTTCTCTG CCTCCAGAGC CTGCTTGGTC CTCAGGCTGT AAGTGCAGGC AGAGCTAATG
TCTCTCCATA GCTGCCCTCC ACCAGCCTGC TCCTGAGACA CCTGCTGGCC AGCAGCCTGA AGCAGAATCC TTTACTCAGA
TTCAGCCGCA CAGATGCTCA CTGCAGAGAT CTCCAAGGNC TGTGGTCATC CTTGAGCCCA TCTCAGATTT GTGTGGATAG
GGTGTTAGAG AACATGGAAT CAGCTGGATA GAGTGGTTCA TGCTTGTAAT NCCAGCACTT TTGGGAGGCT T

SEO ID NO:2143: (Length of Sequence = 326 Nucleotides)

GATGCAGAAC AGCTTCTTGC AGAAGCACCT GCTCCGGCAT CCAGCGCTGC CTGGAGGCAG GAAGGAGAGG CAGGGCAGGA CACGCTGGTC TGAGATGAGG GGGAGCCCCA CGGGCCCCAG GCAGGCTAGA GGAGGCACAG GCCCTGCCAC GGCCAACTCA GGTCAGCCAG CCTGAGGCTG TGGCCTCCAA AGGGTCTGGG CGCACCCCCC AGGTCGCAGG TNINTGAGGC CAGCCAACCT GCAGAGCACT CGCGGCGTGG GTGGGCTGAG TGGAGGTGCC TGGGAAGCTG CCTAAATTCA GAAGCCTCCA CTTGCCATGG AGACTG

SEO ID NO:2144: (Length of Sequence = 357 Murlentides)

GCACCGGGCC CCAGGAGCCC ATCAGTGACA GAGTGCTCCA TGATGATGTC CTCCACCGG GTGATGTACA GCAGCGTCAN AGCACCCCCA GGAACTGGGA NAGCAGGATG CCCAGGAGGA TGCCCGCCAT GATGGTGTAG TTGTCCATGA ACCAGATGAT CACGGCGTTG GTGCAGCCCC GCACGTAGAT GACATCCTGC ACACTGAAAC GCTCCTTGTC GATAGTTTTN TAGCCACACA
TGGTGGTGAC AACTTCTGTC GTGTTCCTGA TGCAGCAGGT GTAGGGCACC CCACAGGCCA GGGGTCCAGG GGCACTGCAG
TCGTGGTACT GATTCTTGCT CCAATCTCGG TAGTCCT

SEO ID NO:2145: (Length of Sequence = 420 Nucleotides)

CGCCAGGAGC TECTAGCCAA AGCATTGGAG ACCCTACTGC TGAATGGAGT GCTAACCCTG GTGCTAGAGG AGGATGGAAC
TGCAGTGGAC AGTGAGGACT TCTTCCAGCT GCTGGAGGAT GACACGTGCC TGATGGTGTT GCAGTCTGGT CAGAGCTGGA
GCCCTACAAG GAGTGGAGTG CTGTCATATG GCCTGGGACG GGAGAGGCCC AAGCACAGCA AGGACATCGC CCGATTCAAC
TTTGACGTGT ACAAGCAAAA CCCTCGAGAC CTCTTTGGCA GCCTGAATGT CAAAGCCACA TTCTACGGGC TCTACTCTAT
GAGTTGTGAC TTTCAAGGAC TTTGGCCCAA AGAAAGTACT CAGGGAGCTC CTTCGTTTGG ACCTCCACAC TTCTGCAAGG
CCTGGGCCAT ATGTTGCTGG

SEQ ID NO:2146: (Length of Sequence = 390 Nucleotides)

CCCAAATACT GTTCCCAAA CTATGTCGG CGCCGAAGC ACATGCGGT NATGGCTGGA GCCCTGGAGG GGGACCTCTT
CATCGGACCA AAAGCAGAGG AGCACCGGGG GCTGCTGACC ATCCGCTACC CCATGGAGCA CGGCGTGGTG CGAGACTNGA
ACGACATGGA ACGCATCTNG CAGTACGTCT ACTCCAAGGT TCAGCTGCAG ACCTTCTCGG AGGAGCATCC TGTGCTCCTC
ACGGAGGCCC CGCTCAACCC GAGTAAGAAC CGGGAGAAGG CGGCAGAGGT GTTCTTTGAG ACCTTCAACG TGCCGGCCCT
GTTCATCTCC ATGCAGGCTG TTCTCAGTCT GTACGNAACA GGACGCACGA CAGGAGTGGT TCTAGACTCA

SEO ID NO:2147: (Length of Sequence = 219 Nucleotides)

TITIGIGGTIG GAGAGAACT GGTGTTCTGC CCGGCTCTGC TTGGTCACAG ACAGCTCCAG CAAGAGCAGT TGTTAAAAGT GCCCAAGCGTG TGTATCACTG TGACAAGCCG TTTGCTTACT GCCCTGTTCC CTINCAGCCA AACCAGCTGA TGAAGAACTG CTGCCAGGNG GGTCCTACAG CAGGTCACAA ATGACCTAGT TTCATTTTAA GCAGACAGA

SEO ID NO:2148: (Length of Sequence = 353 Nucleotides)

GAAATCTITA TIACAAAAAT ATTITGCAAG CCAAAAAGIT TAAGITGCAA CTATATACAA AATGGGGCCT GTITCCITCC
CAGCAGTCIT AAAATAAACT CCTGAAACCA TGCTCCTTCC GCAGGTTGGT TCGACCTCIT CCTTTTCCTG GGGTTCAATA
CACAAGGTAT GIGGATTCTC CAGGTTGCCA GGCTAAAGCT AAAGCTATAC ATCTTCCTTG GCCTTATTCC CTTATTTCCC
CCTCCAAGAA TIAAAAAATA AAATAAAATG AAAATGGCAC CAAGAAAACA TTCTTTTAAA ATACTGAATG TGTGTGTGCA
TGCGTGTGCA CAGTATGTCC CTGTTCTCTG GGT

SEO ID NO:2149: (Length of Sequence = 394 Nucleotides)

SEO ID NO:2150: (Length of Sequence = 200 Mucleotides)

ACCICCTEG COCTOGAGA CECTGACAGO TEGGACGACA GUACCTCCTI CAGCAGOGGO ATCAGOGACA COLTAGACAA CCTCAGCACT GATGACATCA ACACCAGCTC CTCCATCAGO TCTTATGCCA ACACACCTGC CTCCTCTCGA AAAAACCTGG ATGTGCAGAC TGATGCTGAG AAGCACTCAC AGGTGGAGAG SEO ID NO:2151: (Length of Sequence = 369 Nucleotides)

GIGGGGGCCCA GICTITCIGA AACCIGINAT CACACITCGG GCACIGICCC CICTACAGIC AATCIGIGIT ITCAGAAGIG
GCCCCAGGIT CACTCGICIT ACAGCAGICC TAAAGAGCCG GCIGCCCTIT CCCTAGGCIT CCTTGCTCTIT NAGGGCTAAA
TTCCAGCCCT CCTACCCCAG TGCCACTTGG GIAAAAATAC TCIGCTCCTC TCACGITTGC TAATAAGCCC GGGCTCCGAC
TACCACCGIT CGGGGGAAGG GAGCCCCTTA CCGTCATTGC TGGGTCCGCT CCGGGAAAAC ATGTGCCGGA CCTGACTTGT
GCGGCGGCAT CTITCCGGAA AIGCCGTTIT TGTTTCCTTC TAAGGGTGT

SEO ID NO:2152: (Length of Sequence = 312 Nucleotides)

TTCACAAACA AATTGTGGGA GAAACACACC TTCCCAGCAA TAGAAAATCT CTATAAAGTG CATTTTGCCT GCAACCATCT CTCCCCATG CTGGCCCTTG GGTCAGGATT TGAGGCACTG TTCCGAGGGA GCCCTCAGGG CCACCTGAGC TGGGAGAAGG GAGGCATGAA GCCACCATGG AGCTCCAGGG TACTGGACAT ACCCTCTCTA CCCTGCCCTT CCCTNTTGGC TCCAGGAGTG CACTGCCTGA CTCCACTGGC AGGTTGATCT GGGAACGGC TNGGCATGCT AGGGATGGTG GAGAAGTAGG CG

SEO ID NO:2153: (Length of Sequence = 325 Nucleotides)

COCAGACCCA GAATGIAAAT NAGGCCAAAA TGGCCACTTC CCAGGCTGAC ATAGAGACCG ACCCAGGTAT CINTGAACCT GACGGGCAA CTGCACAGAC ATCAGCAGAT GGTTCCCAGG CTCAGAATCT GGAGTCCCGG ACAATAATTC GGGCCAAGAG GACCCGCAAG ATTAATAACT TGAATGITGA AGAGAACAGC AGTGGGGGAT CAGAGGCGGG CCCCACTGGC TTGCAGGGAC CTGGNGGTCT GCACCAGTTC CAGTGACCAC TTCAGAACCC ACCTNGGNGC ACCCCCCAAT GTGCTCTGGC AGACGGCATT GGCTT

SEO ID NO:2154: (Length of Sequence = 326 Nucleotides)

ATCATTAAT TAACATCITT AAATGAAACA CAGITITCIT CATGIGICIC ACTCAGGCTI CAGGGCAGAG GGAATGGATT
TITAGACATA TCAAAGACTC AAAAATTTAA AGAAATATAT ATATGITATA ATATACITCT AACATTITAT GGAAATTAAA
AATCAGAGGC TITIGGICIC TCCATTTACT CIAGGICAAG CICATTTACC CCAGAGGACA AAGAAGGGCT GCCTCTTCIA
GACCCTCCCT TCTCCTTTGT CCINIGICCC ACCCAGCAGG GAAACAAGCT CAGAAGGATC CTAACAGGAT AGAGITTCCA
GTAAAT

SEO ID NO:2155: (Length of Sequence = 317 Nucleotides)

TGGATGAGGA GACCCTGAAC ACACCCTGCT ACTGNCAGCT GGAGCCCAGG GCCTGINACA TCCTGCTGGA CCAGCTGGGC
ACCTACGTTT TCACGGGCGA GTCCTATTCC CGCTCAGCAG TCAAGCGGCT CCAGCTGGCC GINTTCGCCC CCGCCCTCTG
CACCTCCCTG GAGTACAGCC TCCGGGTCTA CTGCCTGGAG GACAGGCCTG TAGCACTGAA GGAGGTGCTG GAGCTGGAGC
GGACTCTGGG CGGATACTTG GTGGAGGAGC CGAAACCGCT AATGTTCAAG GACAGTTACC ACAACCTTGC GGGCTCT

SEO ID NO:2156: (Length of Sequence = 372 Nucleotides)

CTTCCAGCTG GCAGCCCAGT GGCCCACCCA TGTCAAGCAC TTTCCAGTGG GACTCTTCAG TGGCAGCAAG GCCACCTGAG
GCCCTGINTC CCAGCCACTT TCCCTCCTGG CACTGCCACC AGCCTCACCG AGTGGCGCGA TCTCGGCTCA CTGCAGCCTC
TGCCTCCCGG GTTCAAGCAA TINTCCTGCC TCAGCCTCCT GAGTAGCTGG GACTATAGCC GCGTGCCGCC ATGCCCAGCT
AATTTTTGTA TTTTTAGTAG AGACAGGATT TAACTATGTT GGCCAGGCTG GTCTTGATTT CCTGACCTCG TGATCCGTNC
TCCTTCAGGCT TCCAAAAATG CTCGGATTAT AGGCATGAGC CACCACAACC

SEO ID NO:2157: (Length of Sequence = 351 Nucleotides)

CTGGCTAACA TGGTGAAATC CCGTCTCTAC TAAAAGTACA AAAAATTAGC TGGGCGTGGT GGTGGGCACC TGTAGCCCCA
GCTACTTGGG AGGCTGAGGC AGGAGAATGG CGTGAGGCAA CAGTGCAGCC TGGGCAACAG TGCACCTCCT CCATCTCTAC
CAGCGTCCCC TCCAGTCTGC ACGGGGCAGT CCTCCTGGGC TTGACCTCTC TGTACCCACA GCTGGGGGCC AGGCAGCCCC
CCTCTATCCC TCCCAGCACC TACTACATCG NCCTNCACAT CCCTGATTCC TGTTGTTATG GAAACTNTTG CCAGAGATGG
AGGTTCTCTC GGAGTATCTG GGAACTGTGC C

SEO ID NO:2158: (Length of Sequence = 280 Nucleotides)

CAGCTCCTGA GGACCGCTGC AGTGATGACA CAGGACTATT GCATCAGCAT CGTGCTCACA GGGAATCAGA GCTCAGCCAG
GAGAGGTCCA AGAATGACAG AACCATGAGC ACTCCTACCA AAACTCAGCT CTGCTCAGCC AAATCAACAA TTCAACCCAA
CAGGACAACT CCTAACACAT CCCATCCAGA CAGACATTAG AGGCGCACAG CAGATGAACC TCCTACTTAC ACTGTCCAAG
GAAGCTGGAC TATCAATTCC CAGTAAAAGT GGGGGAAAGG

SEQ ID NO:2159: (Length of Sequence = 342 Nucleotides)

CTITATGCGIT TCTCCTACCA GATTGTGCAT GCCTCCTGTG GGCAGAGCCT GTNCTGACTT GCTCCTGGGT CTCCAGCATC
ACCCAGTCTG GAGCTGAGGA CCTGGGTACC TACAGATTTC CTTCCACACT GTCAGAATTG AGATGAAGGA AGCCCAGAGA
AATCAAGTAC CCTCCACCAG GCAGAGCAAA GTCCTGGGTG CCCAAAATCC AGGGAAGGCA AGGGCTGGGG GTACAAGCAG
AGGATCTGAA GAGGTATATG AGAGTNGCCA GCACAGACCT GGCATAAGCT TGGTGCTCAG TGAAGGTTAC CTGATGTTGC
TGGGCACCAG GGGTGATGCA GT

SEO ID NO:2160: (Length of Sequence = 376 Nucleotides)

SEO ID NO:2161: (Length of Sequence = 404 Nucleotides)

CCTTCCTTCG GITTCAACTG GACTTCTATC AGGICTACIT CCTGGCCCTG GCAGCTGATT GGCTTCAGGC CCCCTACCTC
TATAAACTCT ACCAGCATTA CTACTTCCTG GAAGGICAAA TIGCCATCCT CTATGICTGT GGCCTTGCCT CTACAGTCCT
CTTTGGCCTA GTGGCCTCCT CCCTTGTGGA TIGGCTGGGT CGCAAGAATT CTTGTGTCCT CTTCTCCCTG ACTTACTCAC
TATGCTGCTT AACCAAACTC TCTCAAGACT ACTTTGTGCT GCTAGTGGGG CGAGCACTTG GTGGGCTGTC CACAGCCTGG
CTCTTCTCAG CCTTCGAGGN CTGGTATATC CATGAGCACG TGGAACGGC ATGACTTTCC CTGCTGAGTG GATCCCAGCT
AACC

SEQ ID NO:2162: (Length of Sequence = 339 Nucleotides)

CACTGCCTT TIGTAGCTTG GGATCTAATT TGTAACACCT TGCTACCTAT GAAAAGTGGG AATGTAAAAG GGAAAAAGCA
ACTTGGCATT TACTAAACTT AGGCTAACCA AAACCCTCTG TAGAGATCCT TACTAGACAT GGGTGCAACA GCAAGCATCC
CAGAGGACCC ACCACTGGGG TATGTTTTAG GCCAATGGAG CAAATTCAAA TITGGCTAAA AGAAGAAGAA ACTCATTTAG
TATGGCAATA ATATTTGCGT TCGACACAAA GTGGCAAACC AACACATTTG GCCTAAACAT GGTTCTATAT GTTAAAACA
TACTTTACAA TTAGACTTC

SEO ID NO:2163: (Length of Sequence = 285 Nucleotides)

CCCCGCCACC TCCAGCAGGA GCAGCTCAGT TTGTGGCTCT GGGAGCTCCG CTTTTGCAAA CCCAAAAAGG CTGTGCATTT
GGAAGCCAAA CGCTCAGCAT GCGGCTGCCG AGTCTGGTTT TGTGGACAAA GCAAACTGTG GAATGGCTTC TCGGTGTCTG
TATAAAGGGA CAAACGGTTG CATTCACCCT TTGTACTATA ACACCGCTTC TGCATTCGCC ATATCCGTTT TTTAACCTTT
TTGTCTCCCGG GGAACTTCTC'ATTCGATTAT NATGTCTTCT GATGA

SEQ ID NO:2164: (Length of Sequence = 296 Nucleotides)

ATGITTGIAA ATCACTICCT TITCCIACAA TATITCIAAT AAGAAAGCTI ATAACAGCAC TITATTGACA CCCICGGACC CGGGGCAGGGGGGGGGGGAGAAGAC TCCCAGGAGACA CCCICGGACC CAGGCCCATA GGGCAGAGAGA GCCCCCAGG GACCAGAGGA GGATGCTGTG CAGCCAGGCC CATCCCCAGC ACTCGAGGCC TAGGAGAGAA GGTGGAGAGAA GGTGGAGGAGA GGTGGAGGAGA GGTGGAGAGAA GGTGGAGAGAA GGTGGAGGAGA GGTGGAGGAGA GGTGGAGAGAA GGTGGAGAGAA GGTGGAGAGAA GGTGAGAGAA GGTGAGAGAA GGTGAGAGAA GGTGAGAGAA GGTGAGAGAA GGTGAGAGAA GGTGAGAAA GCTGAGGCC CAGGCC CAGGCC

SEO ID NO:2165: (Length of Sequence = 310 Nucleotides)

GITTITIGIA TETTITICAA ATAATETITI TCIGIGIGIG TTITITINCI TITTITIGGAC AGGNICICAT TCCCATIGCC CAGGGIGGAG TGCAGTGGGG CGATCICAGC TCACTGCAGC CTTGACTTCC CAGGTTCAGA TGATTCINCC ATCTCAGCCT CCCGAGTACC TGGGATTACA GGCACACACC ATCATGCCCG GCTAATTTTT TGTATTTTTA GCAGAGACGG GGTTTTGCCA TGGGACTCAG GCTGGTCTCG AACTCCTGGG CTCAAGAGAT CCGCCTGCCT TGGCCTCCCA AAGTGTTGGG

SEQ ID NO:2166: (Length of Sequence = 361 Nucleotides)

GATGGAAACT GGAAAAAAA TAATTIGIAA GCAACAATIT TAGATITITI TATGGAGGAT AGAGACATIT GAATCAGATA
CCAAGAAATG TATAGTAATC ACTCACATAG AAAGATGTCT AAAATGGATT TTAAATGGGA TCGGGGAAAG CAAGGTGCTG
AACAACATGC TGTACATACT ACTTATAAAT CAAAGCAAAC CACTAGCAAA CTGATGTCAG TACTAACACA GGTGGAAGTG
GGATTGTGGC GGAGGGGAGA GGTAGINAGG GTAGACTTAT TTGTACCATT TTNATTTTTG ATATTTCTTT TATATACAGA
TACATAAGTC TGTATATACA TGTATGTCCA ATTATCTCCT T

SEO ID NO:2167: (Length of Sequence = 325 Nucleotides)

TCCTGGGCTG TGCTCTGTTT GAAGGGGGG CCCTGCTCCC CTCAGATCAG TCAGGAGGAA GATGACTAAG GGGAGGGATC
CTCTGGGTGA TGGCCTCTTC CTCCTCAGGG ACCTCTGACT GCTCTGGGCC AAAGAATCTC TTGTTTCTTC TCCGAGCCCC
AGGCAGCGGT GATTCAGCCC TGCCCAACCT GATTCTNATG ACTGCGGATG CTGTGACGGA CCCAAGGGGC AAATAGGGTC
CCAGGGTCCA GGGAGGGGC CCTGCTGAGC ACTTCCGCCC CTCACCCTGN CCAGCCCCTG CCATGAGCTC TGGGCTGGGT
CTCCG

SEO ID NO:2168: (Length of Sequence = 348 Nucleotides)

GGAGAACCGI TCGCGGAGGA AAGGCGAACT AGIGITGGGA TGGCCACCAA CTGGGGGAGC CTCTTGCAGG ATAAACAGCA GCTAGAGGAG CTGCGCACGGC AGGCCCACTT CCTCGGAGGAG CTGCGGAGGAG TATTGCTGAG GACCTCACAG GAGCCCACTT CCTCGGAGGT GGTGAGGTT GCCCCATTCA CGCTCTTCCC CTCACTGGTC CCCAGTGCCC TGCTGGAGCA AGCCTATGCT GTGCAGATGG ACTTCAACCT GCTAGTGGAT GCTGTCAGCC AGAACNGNTG CCTTCCTGGA GCAAANTCTT TINCAGCACC ATCAAACAGG ATGACTTTTA CCGCTCGT

(Length of Sequence = 392 Nucleotides)

ATTITUTES GETCCAGITT GGGGGCAGA AACTARGAS CTGACCTGAT CASACAT GTTGCTTTTE GCGCTGCGCA TITATTIATT TATTTATITA TITATTITTIG TATTTITTAGT AGAGACAGAG TITCACCATG TIGGCCAGGC TGGTCTCAAA CTCCTGACCT CAAATGATCC ACCCACCTCG GCCTCCCAAA GTGCTGGGAT TACAAGTGTG AGCCACCATG CCCGGCCACC TGTTGCATCT TTAACAGCTG TGTTTGGAAA AGGGTGAGGA ATTGATTCAT CAATATTCAA TACTAAGCTG CAAAATCAGG AATGCAGCCA ATTGGTTTAA TTGATCAAGG CITATAAACT CTTAAGGGAC TCTAGTGAAC TGATACAAAC TA

SEO ID NO:2170: (Length of Sequence = 273 Nucleotides)

GTIGITGITG ATGCTGITGI TGTTGCTTTC TGTTTGTTTT TCTTGCAATG GTCAGGICCC ACTCTGAACT CCGGGGGGCA
CCAACCTGAT GCCAGTAGGA TTGCCCTTGT ATAGGGTGTC TGACAACCCC TGTTGAGGGT CTCACCCTGT TGGGTGGCAC
ATGGAATAGG ACCCATTTAA TGAAGCACTT TNTCCCTTGG TGGAGGTAGT GTGCTTTNCT GGGGAAAAAAC CCACTTGTCT
GGGCTGCCTG GATTCCTCAG AACTACCAGG AGG

SEO ID NO:2171: (Length of Sequence = 357 Nucleotides)

GRATGIACC CCAGCACTAG GGAATGATGT GAGTAAGACC TAATCCCTGC TCTCAGGAG CITATAGCCT ATGCCAGCAG
CAACACTAGT AAAAATTTAC TACTTTGATA GGTGCACATC TTCCTTTGGT CAGCAATTTT CTCAAAACCA CTGTAACATT
TTACTAAAAAT GCTAAGCTTT GATTGTTTTT CAACTACTTC TTGAGAGTTT CTGCATGTAT GATAAGGGCA AGACATTACA
CTGAGGTATT GATGCTGATG AGCAGCAAGG CTCACTGGCT GGTGAAGGGA TACTGATTAG CACACCAATG TGCTGCTCTT
GAACACACAC CTCCACAAAA TTACAAATTA TCTTCCA

SEO ID NO:2172: (Length of Sequence = 381 Nucleotides)

GAAGAAGGCC CATGGAGCTA AGGCCTCAGA ACACCAAAGT CTGGACTGTC TGAGGGCACA TGCTAATAAC AGGAGGCTGG
CAAAGTGGCC AGCTCCCATG CCTTTGCATG CATTINICTT TACCTCCTGC TGCCTGGGAA CATCCTTCCA GGAGCAATCG
AGTCAACAGC ACCACAGACA CTGCTATTCC GTTGAGAAAA GTTTTATATG GAAACACATA CTGATCATGA ACACAATAAA
CAGGGAGGGA AGCTCGGGCT CAGCCAGGAA ACCTGCCACA AGGAAGATGT TTGGAACTAT CCAGGAGTAG TGTCAAACAC
TAACACCATA TTTACAAGTC TAATTTGGAA CCTGGGCCCT TTTTAAGTGC AGGAGGAAGT T

SEO ID NO:2173: (Length of Sequence = 351 Nucleotides)

GAAGTICCGG GAGCGCCTGA AGGAGCTCGT GGTCCCCAAG CACGTCATGG ATGTTGTGGA CGAGGAGCTG AGCAAGCTGG
GCCTGCTGGA CAACCACTCC TCGGAGTTCA ATGTCACCCG CAACTACCTA GACTGGCTCA CGTCCATCCC TTGGGGCAAG
TACAGCAACG AGAACCTGGA CCTNGCGCGG GCACAGGCAG TGCTGGAGGA AGACCACTAC GGCATNGAGG ACGTCAAGAA
ACGCATCCTG GAGTTCATTG CCGTTAGCCA GCTCCGCGGC TCCACCCAGG GCAAGATCCT CTGCTTCTAT GGGCCCCCCT
GGCGTGGGTA AGACCAGCAT TGCTCTGGTC C

SEO ID NO:2174: (Length of Sequence = 308 Nucleotides)

TCATTAAATA GCTTCTATEC CACACTCTGA TTAAGCCGAC TGAGGTCCCT GGGATCTGGG TCACTGGACC GAGCTGCTCG CTCGGTGGCT CCACTGCCAG GTCCGGGCGC GCTCCCCACA GCGCTCAGTT CTGGCCCAGA CAGGGGCTGA CATCCGCCGC CTGCAGTCCC GGGGTGGCCG TCACCGTTCC ACGGCCAGNG ACTCTNCCTG CTCGTCCGGG AAGGCGATGT CGAAGATCTC CCGGTAGTNT TCCACGAAGG TAACCTCCAG GGCCCTCGGT GATGAAGGCT TCCAGGTCGT AGAAGTCC

SEQ ID NO:2175: (Length of Sequence = 403 Nucleotides)

CTTGCCCAAG GGCCTGAGCT GGTGGAGGCA GAGCAGGAGT TGGATCCAGG CCTGTNTGAG GCATCCTGCC ACCTCCATCC AGACCTGGAG CAATCCCTGA GAAGGGTGGC TACCACCAGA GATTGGCAG CTCTGGTCTC AGGAAGCATA GCCGGAGGAT GTCCCAGGCA ACCAAACAGC CATTCATCAG TAAGGAGCAA GATNAGGGC TGCTAGTTCA GCCCCGGAA GGTGGTCCAG GGGCAGCCAG TNCAGAACTC AGCAGGAGCT CAGTTCCAAC TGAGCCTGAT TTCACTCCAG TGTCCACAAG GGACATCCTG

ACCIGGAGGI CCICGGCIAC TCACCCIGGG GCCINCITGC ACAGCCCAGG AGCIAGCCCA GGGCTGCCIC TAAATGGITC

SEO ID NO:2176: (Length of Sequence = 399 Nucleotides)

AGGCAACTAT TGAGGGAAGA GGCAGAAAAA GGAAAAAGGA ATGTACGTAA GGCAATTTIN CITAAAAGTA CAATAAGCTT
AATAGTGTTT TAGGAAGACA AGATAAAAAT TACTCAAGGC TAGCTTGGTT CTCACTGAAT AAAAACAAAG GACTAAATAC
TGAGCTCCIT CTGTGTGGAT CTAATAATCA ATGCCTTGGT CGCTATATTG GTAATCTCTG GGGTAGTCAT CCTGGTACTC
GCCATGATAC TCATCAGGGT ATTCTGCCTG ATAATCACTA TCACTGATTT CCGAACCATT TGTTCCTGTT CCTTGGCTTC
CGTTGTGAAT GACAGGTTCT GTAGGAGCAG CACAGTATTT GGGGATCATA TACTTGCCGN CCAAGGCCAT ACAAACTCA

SEO ID NO:2177: (Length of Sequence = 302 Nucleotides)

GGITITIATA AAAATCAGAA TITITCAAAT GCATTGGICA TITITCAGATG CATTGGICAC ATTICATTAT TCCATATCAA AAAACTGCAT TIGITAATGI CACACAAATC TCATTGGAAA GGICTICAAG TATTGGGAAG TIGITCAGGI CACAAAGATG AATGCTAGTI TITCAAAAATT CTACTTTTTA CTIGAATGCT CAAATCTTAT AATTGGTAAC CCGGICAGIT TITCTTTAGT TGATAGGCTT ACTGCTTTTA TGIGTGAGA ATACTTGICT GIGAAACATC CAAATCTGGA AG

SEO ID NO:2178: (Length of Sequence = 343 Nucleotides)

GGITTCACTC TCCTTGCCCA GGCTGGAGGA GCAATGTCAT GATCTTGGCT CACTGCAACC TTCTCCCTTC CAGGCTCAAT
CAATTCTCCT GCCTCAGCCT CCCGAGCAGC TGGGACTACA GGTGCGTGCC ACCATGCGCA NIAGGTTTIT TTTTTGTAGA
GACAGGGTTT TGCCATGTTG CCCAGGTTGG TCTCCAACTC CTGAGCTCAA GTNATCTGCC TGANGTGCTG GGATTATAGG
TGTNAGCCAC CACATCCAGC CTCCTTTTAA TGTTTTGTTG ATTATTTATA GTGAAAGATT TAAATTCCTT TCTATTTCCT
TGTGGTATAT ATTCTATAGG CTA

SEO ID NO:2179: (Length of Sequence = 377 Nucleotides)

AGATCATCAG GAATTAGATT CTCATAAGGA ACACACAACC TAGACCCCTC AGAGGTGCAG TTCACAGTAG GGTTCATGCT
CCTATGAGAA CCTAATGTTG CAGCTGATCT GACAGGAGGC AGAGCTCAGC TGGTAATGCT CACTCACCTG CTGCTCACCT
CTTTCTGTGT AGCTCGGCTC CTAATAGACC TGTATGTGTC CATGGTCTGC GAGTTGGGGA CCCCTGCAGG AAGTCTTGTA
AATGCATGTC AGGAAACTTA CTGTTTACAG CCACATAGTT TGTAGTAGTA AGGAAACTAG GACAATTCAA ATATTCATCA
NGGGGAAAAAC TGGGATAAAT TGTGGGTCAA TTTCATATGT TTCATACAGG AAAAAAG

SEO ID NO:2180: (Length of Sequence = 195 Mucleotides)

GATATTIGCT TITCTCAGAA CCATAATOGA TACAAGATGC AGIGACCAAT TCATTCCTTA AAACACCTGG GCTCCTTAAG
CGGCTAGAAG ACACAAGTTA CATCCAGCCC ATCAGGGAGC CAGAGGGAGA GGGGTCCCCA GCCAAGCTCT GGNCAGGCCT
GCCATGGGGC AGNGCCTGAC CGINCAGCCA GAGGT

SEO ID NO:2181: (Length of Sequence = 244 Nucleotides)

TTGGGTGGGA ACGGGCCCGG AGCGGGAGGA ACGTGACTCC CCAGAGGGAA GATGGGCATC ATACTGGGCC CAGAGCTGGG AAGGAGTTGC TGCCAGCACA GGGTGGGCCT GGACTCCCCT CGCCCCTACC CCCAGTGGTT GTGGCTGTAG CCCTAAGCCT GGAGAGCAGG ACCGGCCCGG GGTGTNTNEN AGGCTGCCAG GTGCCTCCCAA GGGCCCCCAC CTGCAAGTNC CAGC

SEO ID NO:2182: (Length of Sequence = 287 Nucleotides)

CTCCTTGAGT CTGTTGACAC GTCACATGGT CAAAGTCTCC TCATTTCAGC CAGTCTCAAC ACAAAACACC CAACAGGGAT GCACTCAACT TGTTGGTTCC ATGTGGAACT AGGTGGCAGG GCGAGAGGGA AAGTAGTAGA AGGGGGCTAT GGTGTGTCTG CATTCAGTCC CCTCACATAA AGCCACATGG ATCTAGGGGG GTATCCAAGA GCTCTGGTGG GGTCCGTGTT GCACCTAAGA CATTATAGGT CAGAGCAAGT TGCTCAGAGG GTTCCAGGCA GGGGGCT

SEO ID NO:2183: (Length of Sequence = 389 Nucleotides)

GATCCAGAGA GGGCTCCAGG TGGAGTCCCT TTTTCTGCAT AAGGGGCTGT GACCGAAGCA CAGAGGGGAA AAAAAAAAGT
GGTGGGAGCC TCCTCTGGTT TCACCTGAAG AGGGAGGTGG AAGGGCCTGA AAATTAGATT TTTTTATAA ATAATAGATA
TTATAGGTAT ATTTNCATAT TTTTACATAA TGATGCCAAC CACAAACAAT GGACCATAAA GCACTGACCT CAGAATGATC
AATTGCAAAA TGTTTAAACC CTGGGAAGCT TTTGCTTAGG AGGGCGGATA TTCTGTGTTG ATGTTATTCT ATAGCCATAA
ACTTCCCTGA ATTTNCTGCT AATGTATCCA AGTCCAGGGA AGTCACTTAA AACTCTTCAA ATGCAGCTT

SEO ID NO:2184: (Length of Sequence = 383 Nucleotides)

GCAAGAGAAG CGGTTTGGGT CTCTGAAGGA AAGGCCAAAA CCCAGAACAA AGAAGAATCC TATGACTTCT CCAAATCCTA
TGAATATAAG TCAAACCCCT CTGCCGTTGC TGGTAATGAA ACTCCTGGGG CATCTACCAA AGGTTATCCT CCTCCTGTTG
CAGCAAAAACC TACCTTTGGG CGGTCTATAC TGAAGCCCTC CACTCCCATC CCTCCTCAAG AGGGTGAGGA GGTGGGAGAG
AGCAGTGAGG AGCAAGATAA TGCTCCCAAA TCAATCCTGG GGCAAAGTCA AAATATTTGA GGAAGATGGN TCCACAAGGC
CAGGTTACAG AGGAATGCAA GGAGCTTCCA GGGAAGCACA GAATTCCAAG TTTTCGGAAA TTT

SEO ID NO:2185: (Length of Sequence = 359 Nucleotides)

CTTTAATTCA CATCACAGCA GTCAAGGAAG TGGGGAAAGG GGAAAAAAAT CAAGTGGCAG ATATTTACAT CTAAAATTCA
CATTACTTGT TGGATTTTGA ACATGCTACC ACAATATATA CAGTAAAATA CCTCTTGGGA CAATGGTACA AATTTTGTTT
CCTTTAACTT TGCTTTTCTG GTACAGGTAA GATCATTTTT AAATCACTTT TTTNCTTTAA ACATGAATAC ACAAAAGAAA
TGGTTAGAAG TTTCCTTGTT TTAAATAAGC ACAGAATGCG GGAGGTTAAA AACACATTTA TAGTGCTGAA TACCAATTGG
NCATCACACT CTATACATTT TTTGCTCAAA TTCCTGTAC

SEO ID NO:2186: (Length of Sequence = 337 Nucleotides)

ATAGITATAC TCAGIGAAAT TAACAAGACC CAAAGGIGGI ATTGICTAGG AATAAAAGGG ATAATTITTIG TTGITCACAA
AAGTAACTIG TCTAGCACCA CACATCAGAA AAACACAAAA ATAGCACACT CTAGITCTAA ACAGCTATGI CTAAAATAGA
TTATATAGTA AAACCGGTAT TATACAGCAT ATTGIGGATT TGATAAACAG ATAAATATTI GCNCIGAGTA GGCIGITTAT
AATATAACAT TINCITATCT ATACAGAATG AAAGCCAAAA AGITAACTGI ATAGAGATGI GCAGAACAAC ATTAAATATT
ATGGCTCAAA AGCAGGG

SEO ID NO:2187: (Length of Sequence = 329 Nucleotides)

GCATTINICA GCACAGATAG AGCOCTGICC CTCCACCTAG TGCCCACTCC ATGACTGITA ATAATAACAA TAATAATAAA ACTACTGGCC AAGCACGGTG GCTCATGCCT GTAATCCCAT CACTITGGGA GGTCGAGGTG GGCAGATCAC CTGGCCCAAC GCCACGGCT CTAGCTCCGG GCTCCCTGAG GTCCCCAGTG CCCTNNCCGG TCCCACGGCT CCCACGNTGC CACCCTGTCC TGACTCGCCA CCTGGTCTTG TGGGCAGACT GCTGATCGAG TTCACCTCAC CCATGCCCCT GGAGGCGGGT GCAGAGGGAG

SEQ ID NO:2188: (Length of Sequence = 335 Nucleotides)

GECCCCAGCT CCTCTTCCTG CCTCTNINAT GECTTGGGCT GGAGTGGGCT CTCTGGACCT GACCGGGGGT CAGACTGTGG
GTCCCTGCGT CTCCTGCCCA CTCTNACCGG GCTTCCTCCC TCCACGCTTA GGGTCTGTCC CGGGTACTCA GTCAGCCCAG
TGGGATCTTA CCCACTTCCC TGCAAGGTGC ACCTGCCCCA GGCTCAGGCT GCCCAGCGGC TCTTCCTGGA CAGTAAGAGC
AGGGCTGGGC GCCTCTTTCC TGGCCCGGAA GCCGCAGGGG CCCCTCCTCC AGAGCCTNGG CGCAAGGAAC ACAAGGCTGC
CGCTGCTCTT CCAGG

SEO ID NO:2189: (Length of Sequence = 366 Nucleotides)

AACTGGTGGA TCAGATCGAN TICTACTITT CINATGAAAA CCTGGAGAAG GACGCCTTIT TGCTAAAACA CGTGAGGAGG
AACAAGCTGG GATATGTGAG CNITAAGCTA CTCACATCCT TCAAAAAAGGT GAAACATCTT ACACGGGACT GGAGAACCAC
AGCACATGCT TTGAAGTATT CAGTGGTCCT TGAGTTGAAT GAGGACCACC GGAAGGTGAG GGAGGACCAC CCCCGTCCCA
CTGTTCCCCCA ACGAGAACCT CCCCAGCAAG ATGCTCCTGG TCTATGATCT CTACTTGTCT CCTAAGCTGT GGGCTCTGGC
CACCCCCCAG AAGGAATGGA AGGGTGCAAG AGAAGGTGAT GGAACA

SEQ ID NO:2190: (Length of Sequence = 333 Nucleotides)

CTGCGATCCA GCCTAGGCAA CAGAGTTGAG ACCCTATCTC AAAACAAACA AAACAGCCAG GCACGGTGGC TCATGCCTGT
AATCCCAGCA CTTTGGGAGG TCGAGGTGGG GGGATCACCT GAGGTCCGGA GTTCGAGACC AGACTGACCA ACATGGAGAA
AGCCCATCTC TACTAAAAAAT ACAATATTAG GGGGCGTGGT GGTGCATGCC TGTAATCCCA GCTATTTGGG AGGCTGAGGC
AGGAGAATCG CTTGAACCTG GGAGGCGGAG GTTGCAGTGA GCCATGATTG AGCCATTGCA CTACAGCCTG GGCAAGAGCA
AAACTCCGTC TTC

SEO ID NO:2191: (Length of Sequence = 284 Nucleotides)

AAGITTATAA AAGITTGATT ACTGGAAAAG TTCGATCTAA TTCAGAAATT TCAGGCCAAA TGAAACAGCC CCTTCAAGCA
AACATGCCTT CAATCTCTCG AGGCAGGACA ATGATTCATA TTCCAGGAGT TCGAAATAGC TCCTCAAGTA CAAGTCCTGT
TTCTAAAAAAA GGCCCACCCC TTAAGACTCC AGCCTCCAAA AGCCCTAGTG AAGGTCAAAC AGCCACCANT TCTCCTAGAG
GAGCCAAGCC ATCTGTGAAA TCAGAATTAA GCCCTGTTGC CAGG

SEQ ID NO:2192: (Length of Sequence = 260 Nucleotides)

ATGACGACGG CTACCTCGAG GTCATTGGCT TCACCATGAC GINGTTGGCC GCGCTGCAGG TGGGCGGACA CGGCGAGCGG CTGACGCAGT GTCGCGAGGT GGTGCTCACC ACATCCAAGG CCATCCCGGT GCAGGTGGAT GGCGAGCCCT GCAAGCTTTC AGCCTCACGC ATCCGCATCG CCCTGCGCAA CCAGGNCACC ATGGTGCAGA AGGCCAAGNG GCGGAGCGCC MTCCCCCTTG CACAGCGACC AGCAGCCGGT

SEO ID NO:2193: (Length of Sequence = 247 Nucleotides)

GGTCTCAGCA CTCGCTGGGT GACCCGCGGG AGCAGGCAAA GGAGGGCTCC CAAGTCCGTT CTGCAGCACT GGGGCAGGGA ACAGACCCAG GNTCCTGGGA ATCCTCTTCT GCCTAGCTTT GCCTGCCTGC CAGAGCAGGG CCTGCGGTTT GGGINCTGTN ACCNTCCGGG GGCGGGGAA GGGCAAGGNA GGCGGATCTC TGAAGTCCCG CCCAAGTTCG CTNCTGATCC CCCAAGGTCA GAGAGGG

SEQ ID NO:2194: (Length of Sequence = 399 Nucleotides)

CCICCATCTC CCGGGTTCAA GCGATTCTCG TACCTCAGCC TCACAAGTAG CIGGGATTAT AGGTGTCCGC TACCACACCT AGCTAATTIT TGCATTGTTA GCAGAGATGA GGTTTCGCCA GGTTGGCCAG GCTGGTCTTG AACTCCTGAC CTCAAGTGAT CCACCCACCT TTGTTGGCCT CCCAAAGTGC TGGAATTACA GGCAACATGT AGCCTTTGAG TCTAGCTTCT TCCACTAGCC TAATTCATTT GAGATTCCAC TCGATTCTAC TTGAGATTCA TCCACATTGT TGAATGCACA TTCTTTTTTA TTTGTTCTGT
AGCATTCTGT TGTGCAGCTG TGCCCCCAGTT TGTTTANCTA TTCACTCTCA GTTGTTTCCA GTTTTAATGA CAACTTCAG

SEO ID NO:2195: (Length of Sequence = 172 Nucleotides)

TCAAAGTCAG CTTCTTGACC TGCAGGGCTT CAATTTGTGG CTGACAGTTT TAACTCAGAA AATCCCTGAC TTGATTGGCT ACATAAATNA TATGTNATAT AGCCATTAAG ATCATGGTTT TGGAAAGTAT TTTAATGATA CAGGAATGTG CTCTGAAATA ATAAGTGGGA CT

SEO ID NO:2196: (Length of Sequence = 398 Nucleotides)

GCAAAAAAA AAATTATTAT CTCCACTTA CCAGTGCTGA CACTTCACCA ATGTAGGGCT CTCAGTGACT AGCCCAGGGT
CATGCACAGC CTGTTTCAGC AGCTACCTTG GACTTGAACC CAGCTCGGTC TGTCTGACTC AATGCCTATA GTCTTAACCT
TTCCAGCAGC TGCTTCTTTG TCAAACAGGT CCTCCCGCAG GTTTTCACAG CCCAGCCCCT TACTCAACAA GTATTTATTG
ACAGGCCTCA GGAACACTAG GCAAGTAGGA TAGCAATGAA CAAGATGCTG ACCTTGACCT TGACCCTGCA TCCATAGTAT
GAGCATTTTA ACTGGGGGAG GGTTTGCAAA GTTCTCTTAA ACAGTCTACT ACATGCTCTG TAAGCATTTT CTTATGGG

SEO ID NO:2197: (Length of Sequence = 313 Nucleotides)

GICCCITGIG CATIGAGIGC ATCCCCGCIG GIGACIAAGC TCGCAGCAAG CGGCTACCCC CCGATCIGCA AAAGGGCCTC
TCCCITIGIG TICTATACAT TGIGAATCIT CCCGTCIGAA GAACGCCCAG CCTGCCCAGA CAAAGCCCCG CCTINCCCAA
AGCAGAGGGG CIGTCIGIGI CTCCAGAAAG GGGACATCGG GGGGAGGGG GGCTCAGAAA GGAGAAGGGC TGIGATCICC
GGTCCCTTCC CCCATCATCC TTCCTTAGAC TGATGCTTTG ACTGAATCAT CACTAGCTAT GGGCATTAAA AGG

SEQ ID NO:2198: (Length of Sequence = 360 Nucleotides)

GETCTCACTA TGITGCCCAG GCTGGTCTCA AACTCCTGTT CTCAAGCGAT CCTCCTGCCT CGGNCTACCA AGGTGCTGAG
GTTACAGGCG TGAGCACTGC ACCTGGCTAG GAAACTNAGT TTTTTCAGTG GTAGAGGCTC CTAGCCAGTG GCCAAGGGAA
AGAGAGAGTT CTGGGTTCAG GGGCTGGCAG GAAGTCAGCA AGACACCAGG GACTCGGCTC CACTGGCTGG ATCTCAGGGA
AGAGCAACTG CCACAGTGGG GACCTGGAAC ACAAAGGGAA ACTGAGGCAG CAGCTGCACC ACAGTTTACA AGTAGAAAGA
CCATGCTTGA GGACAACAGA AGTTTCACTA AGGATGCACG

SEQ ID NO:2199: (Length of Sequence = 374 Nucleotides)

TTTTGGGTAG TACCCTTGCC CTCTTCATGG CCACTTCAAA GTGAAGCCAG CAAAGTGATA ATACTTTATC ATTTAGTATT
ATCATAAAGT ATTAATACTT TGTCATAAAG TCCTCCTTGA GCCCAGGGAC CATGGAAGTC AGCTAGAAGA GCCCTGAGCA
AGGAGCAAGG ACTTGGGCTT CTCCACGCTT TGCTCCTGGC TTGTTTGACC TTGACTCATT CCCCATATGT CTTTGAGGAG
GCTCACAAAA TACTAAAGCT GGGAGGAAAC TTGGAGATCT ATAGGTCAAA CCTCCCCATT GGGCTGATGA GAAAATACAC
GCAGGCCTAG CATGGTGCCT GCCACCATGG TGGGATCCAG TATGGTTTTA TAAA

SEO ID NO: 2200: (Length of Sequence = 416 Nucleotides)

CTACTAAAAA TACAAAAATT AGCCAGGGT GGTGGTGGG ACCTGAAATC CCTACTCAGG AGGCTGAGGC AGAGAATCGC.

TTGAACCTGG GAGGCAGAGG TTGCAGTGAG CCGAGATCGT GCCACAGCAC TTCAGCCIGG GTGACAGAGC GAGACTCCAT

CTCAAAACAA AACAAGCAA CAACAACAA CAACAAAAAA TACCTCTTGA CTTCTAAAGA CGCAAAAGTG GCCAAAAGTG

CAATACAGTA TTGTGTTTAT TTACATCTAT TTTAAATGCA TGTGTATCTG TAAATACAAA GTGATTCGTG ACTCATTGTC

SEO ID NO:2207: (Length of Sequence = 348 Nucleotides)

GIGITIGITI CICTITCCAC CATAATIGIA AGCITCCTAA GGCCTCCCCA GCCCIGIGGA ATIGIGGATC AATIAAACCT CIGICCITTA TAAATAACCC AGTCTGAGGC AGTTCTITAT AGCAGCGIGA GAATGGACIA ATACACCTCC CITCITGAGT CTGGAAGAAT ATGTGAAGGG AGATTGCTAA GGACITATITI ACAGAATGGT TCTTAAAGTG CTTGGGCAAG AACTATGTAT TTNTGGAGGC TGGTAGTGTT TCAGTGAATC TGAAAACCTT TGTGACATGT GAGAAAGGTA TGCTGTCTCT GAAAGCTAAG TGTATTATGA AGGACTATA AAGGGCCA

SEO ID NO:2208: (Length of Sequence = 154 Nucleotides)

GAATCCTGCT GTGCACATTG CTTCAGATGG CTAATTATAT CTTTGGACTG TTTGTACAAC CATTGACAAA TATACTTACT TTCATTTCTG CTAATGCAAC TGAAAAGAGC ATTCTGTAAA TTGAAGAAAA ACAAATAAAC AGNAATTAAC AACC

SEO ID NO:2209: (Length of Sequence = 352 Nucleotides)

GAGGITCAGA ATCCTCCATC CAGCATCTTC CCTGGTCACA TGGTCCCAAC CTTTTGCTCC ACCCCCTTCT CTGTTCCCCC
CGCAGTCCAT GCTCCAGCCA TCCTGACTCT GTCCCTGGAT TTCTGGCTTA CTGACACCTG AGCCTGTGCA CAGGNCCTCC
CTTCTGTATA GAGCACGCTT CCCATCTTGT GGACTTGCTT CCCATCTTGT GGACTCGGAG GGTTCCGAGC AGCCGTTGAG
GTGANGCTCC TATGACACCT CCNCCGTGAA GCCTNCCTCA CTTTTCCATT ACCAGTGAGG CCTGCCACAG CCTGATTTGT
ACTCTGATCC TGGCACGCAT GGAAGCCATC TT

SEQ ID NO:2210: (Length of Sequence = 338 Nucleotides)

GTCTTTCCAT CAAGAGTCAA TGTATATGCA AATATAGACT TAAGAACATA AGCATCCTGG TTTAATGTTG TTGTGAGCCC
TGTGGAAATA AAATTAAACT CAGTGAATGT TTACAAATCA ATACATAGTA ATCCTATATA TGAAAGCTAA GATGTATAAG
ATGTTTATAA ATTTNCTATT AGAAAATACT GCTTTCTTAA AGGTGATTTT AAAAAGCTAG CTGATATCTG ATGGCTCAAG
CATCCAGAAA ATGTATGCAA TGATAAGNCA TTGACTAGGA TGAACAGAAA AGGGATACAG GAAAAGTCCG AACACATGAA
ATTCTAAATT AACCAAGA

SEO ID NO:2211: (Length of Sequence = 353 Nucleotides)

GTICCIGGAG TACCCICITC CCCCAACCCC AGACCIGCIT TCAGAGCAAA ACTCAAGICC CICTICCICC GIGAAGCITC
TCCCICAGCI GAGCAGTGAT CACTIACICA CICTIAACCC CAATCCGCIG ACTGGGIGGG GACAGCACGI CCAGCCITCC
CACCICTCCT GCAGGCTICT AGACGGAGTI TCAAAAACIG ATGAGCCICG ATCCAGGGCI TGAAAGAAGC CAGGGTGTAA
TCTTGTTCAT GCATGCNICC CCAGAGNCIC GCCCAGTGCC TGGNACATAG TAGGCACTCA ATAAATGCIG AATGGGTGAA
TAGTTGAATG ATAGGTGCTC AATAAATGAA TGA

SEQ ID NO:2212: (Length of Sequence = 293 Nucleotides)

GAGAAAGGAG GCAATCTCAG TCTCGGTCTC CAAAAAGGGA TACTACTAGG GAAAGCAGAA GATCTGAATC ACTGTCCCCA
AGAAGAGAAA CTTCTAGAGA GAACAAAAGA TCTCAGCCAA GAGTGAAAGA TTCTTCCCCA GGAGAAAAAT CCAGGTCCCA
GAGCAGAGAA CGAGAAAGTG ATAGAGATGG GCAGAGGAGA GAGAGAGAAA GGAGANCCAG AAAGTGGTCT AGGTCCAGAT
CTCATTCTAG GTCCCCCTCA AGATGTAGAC CAAAAAGTAA GAGTTCATCA TTT

SEO ID NO:2213: (Length of Sequence = 423 Nucleotides)

NATTAACACC ACAGTGATAA ACAACTTTAA GCTTATGTTT CTTTATAGAT CACTGGCTCA CACATAATTC AAAACCCACA CAGAAGCTAA GAGTCTTTAC ATTAAAAATA TTCTTCCTAA AAATCCTTAC TGTATGCATC TGTCCTCAAG CAGTAAAAATT TGATTATGCA CCATTTTATA ATTAATATGT CACATTTACA TAGCAAAATA ATGAAGGCAC AGCTAATACA AGCAAACTTA

AACCCITTCT ACTTCTGAGC TEGEGGIAGG GGCACACACT TGGGATTGGT TCTTCAAGTA TATATTTTIN CCAAACATTA GCTTCAGTGA AGAGTTCTGG ATGATTTTCA CAGCTACACC CCTAAAAGCT ACATGGACAG AAAGACGTCA CAAGGCGCAA GGTACATAAC GGTGGGTACA TAT

SEO ID NO:2214: (Length of Sequence = 259 Nucleotides)

GTCATGGAGA TCCACAGCAA GTACINGCGC TGCCTGCAGG ANCAACCTCC ACAGCGGGGC GTTCTCTGAT CGAGGCTCAG
ACTITCGAGA ACGAAGAAGC CGAGACGGTC ACCGCCATGG CCTCGCTNTC CGTGGGCGTN AAGCCCGCCG AAAAGAGACC
AGATGAGGAG CCCATGGAAG AGGAGCCGCC CCTNTAGCAC TNCCTCGAAG NTGCTGTTCT CTTGTCTGTC
TTTAAGCTCA GCCAAGAAA

SEO ID NO:2215: (Length of Sequence = 378 Nucleotides)

CACACATCCT CACCCCACAG AAACTGCTGG ACACACTGAA GAAACTGAAT AAAACAGATG AAGAAATAAG CAGITAAAAA
AATAAGTCGC CCCTCCAAAA CACGACCCCA TCCCACAGCG CTCCGCAGCT TCCCACCACC GCCCGCCTCA GITCCTTTGC
GTCTGTTGCC TCCCCAGCCC TGCACGCCCT GGCTGCCACT GTTGCCGCTG CATTCTCGTG TTCAGTGATG CCCTCTTCTT
GTTTGAANCA AAGAAAATA ATGCATTGTG TTTTTTTTAAA AAGAGGTATC TTAATACATN GTATCCTAAA AAGAGGAGCT
CATGTGGCAA TTGGTGCACA GCAGGAGGAA ATTTCTTGGG ACTINITTAG GNIGAATT

SEO ID NO:2216: (Length of Sequence = 428 Nucleotides)

GAACCCACAC TGGGGAGAA CCATATGAAT GTAAGGAATG TGGGAAAGCC TTCAATTATT CCAACTCATT TCAGATACAT
GGAAGAACTC ACACTGGAGA GAAACCCTAT GTATGTAAGG AATGTGGGAA AGCCTTCACT CAGTACTCG GCCTTAGTAT
GCATGTACGA TCTCACAGTG GAGACAAGCC CTATGAATGT AAGGAATGTG GGAAATCCTT CCTTACATCC TCACGCCTTA
TTCAACCATAT AAGAACTCAC ACTGGAGAGA AGCCTTTTGT ATGTGTTGAA TGTGGGAAAG CCTTTGCAGT TTCCTCAAAT
CTTAGTGGGC ATTTNAGGNA CTCACACTGN AGGAGGAAGG CCTCTGAAGT NINAGATATG TGGGGNAAGT ATTTTGGGCN
ATCCCCCCAT GTCTTTAATA ATCCCCAT

SEO ID NO:2217: (Length of Sequence = 408 Nucleotides)

GECATCAGAG TICATCGIGA ACACCCIGAA TECCEGCICG GEGECCITGI CIGICACCAT TEATEGCCCC TCCAAGGIGC AGCITGGACIG TCGGGAGINI CCTGAGGGCC ATGIGGICAC TIATACTCCC ATGCCCCTG GCAACTACCI CATTGCCATC AAGIACGGIG GCCCCCAGCA CATCGIGGGC AGCCCCTTCA AGGCCAAGGT CACTGGTCCG AGCCTTTTCC GGAGGNCACA GCTTINACGN NACATCCACG GITCITTGIG GGAGACININ TACCAAGTCC TTCCTTAAAG CCGGGGGCTT TCAGGTTACA ACNITCCATT CCCCAAAGTT TNITCCTCAA AATNNCCAGC AAAAGGTGGG TTGACTNENG GGCCCCTNGG GNTTTTCCCA GGGCTTTC

SEO ID NO:2218: (Length of Sequence = 316 Nucleotides)

TTIACAGAAT ATAGCITTAT TTATAGAATC TTACAAATAA AACATTIACA GTCCACATAA GTTAATTINC TTITCTAATT
TCTTCTCATA CACCIGAGIT ATTTAAAAAA ATACIGIGAT GGAACIGCAG AACIGIAAAG GGAAATAAGA ACAATAAAAT
CCTAACCICT CTTGCAAAAA TCAGACAACI TTGITTTAAA GTAGATGCCC AGCATATIGC CATCICTTIG GAAGAGGACT
TACTATACIC AGCICTTACG MIACCCAAAC AGAGAAGCCT TCTTTTTAAA ACCCAAGGIT AAGGGCCCAG TGAAGG

SEO ID NO: 2219: (Length of Sequence 313 Micleotides)

GGCTTCCTGT CCCACAACTT TCTCACGGTG GCGCCTGGAC ACAGCAGCCA CCACAGTCCA GGCCTGCAGG GCAGGGTGTG ACCCTGCCCG GGCAGCCACC CCTCCCTGAG AAGAAGCGGG CCTCGGAGGG GGATCGTTCT TTGGGCTCAG TCTCTCCCTC CTCCAGTGGC TTCTCCAGCC CGCACAGGGG GGAGCACCAT CAGTATCCCC TTCCCAAATN TCCTTCCCGA CTTTTCCAAGGCTTCAGAAG CGGCCTCACC TCTNGCCAGA TAGTCCAGGT GATAAACTTT GTGATCGTGA AATTTTGTTC AAGACACTT

SEO ID NO:2220: (Length of Sequence = 343 Nucleotides)

CTGGCTAACA TGGTGAAATC CCGTCTCTAC TAAAAGTACA AAAAATTAGC TGGGCGTGGT GGTGGGCACC TGTAGCCCCA
GCTACTTGGG AGGCTGAGGC AGGAGAATGG CGTGAGGCAA CAGTGCAGCC TGGGCAACAG TGCACCTCCT CCATCTCTAC
CAGCGTCCCC TCCAGTCTGC ACGGGCAGT CCTCCTGGGC TTGACCTCTC TGTACCCACA GCTGGGGGCC AGGCAGCCC
CCTCTATCCC TCCCAGCACC TACTACATCG NCCTNCACAT CCCTGATTCC TGTTGTTATG GGAAACTNIT NCCAGAGATG
GAGGTTCTCT CGGAGTATCT CGG

SEO ID NO:2221: (Length of Sequence = 373 Nucleotides)

CTCTGTCTCC CAGCCCGGAG TGCAGTAGCG CAATCTTAGC TCACTGCAGT TTTGACCTCC CAGGCTCAAA TAATCCTCCC
GCCTCAGCCT CCTAAGTAGC CGAGACCACA GCTGTGCGCC ACGACATCTA GCCAATTATT TGTTTTTTGT AGAGATGAGG
TCTCACTGTG TTGCTCAGGC TGGGTAGGTG TCTAACTCCT AGGCTCAAGT GATCCTCCCA CCCCAGACTC CCCAAAGTGCT
GGGACTACAG GCGTGAGTCA CCGCGCCTGG CTTTGTTTAA GGCATTCTTT TTCCGCAGCA TCTGTTACCA GCAGCCTGAA
GNCATTTCTA TAAACAATTA TCANGGAAGA CACATGGGC AGAGACCCTA AAT

SEQ ID NO:2222: (Length of Sequence = 197 Nucleotides)

GICTCCTGTA ATTCCCCCAA ACCGGTTCTT GAGGATGTGA AACCAACTTA TTGGGCTCAA TCCCATTTGG TCACAGGATA CTGTACGTAT CTNCCTTTCC AGAGATTTGA TATCACCCAG ACACCGCCAG CATACATAAA CGTGTTACCA GGTTTGCCCC AGTACACAG CATATATACA CCCTTGGCCA GCCTTTC

SEO ID NO:2223: (Length of Sequence = 280 Nucleotides)

TTTTTTTTT GCATTITIAG TAGAGACGGG GITTCACTGT GITAGCCAGG ATGGTCTCAA TCTCCTGACC TCGTGATCCA
CCTGCCTCAG CCTCCCAAAG TGCTGGGATT ACAGGCATGA GCCACTGCGC CCGGCCAACT TTTTGCATGT TTTCTTTAAA
ATTTCTCTAC TTTTAATTGT ACTTCTAATA CAGACACTTC TGAAATCAGT TTTCACATTG CTGCAGCCTT ACCAATTTGT
AGANACTGTT TATGTGATGT TTTGATTCTT CATTTATATA

SEO ID NO:2224: (Length of Sequence = 388 Nucleotides)

GATTGCAGGC ATGAACCACT GCGCCCAGTC GAGTGGTAAT ATTTTGAAAG GAAACCITTT TCTGAGCAGG TCTCAAAAGA
GAGGTTAAAA TACTGAGTAG ACCATGCTGT AAACAGATGT GCTGTTATTC GGGCTTTGAT ATTCCATTTA TAAAGCACAG
GCAGAGCTCA GAGTAGATT AATGTAACTC TGAAGGGCAC TAGGATTTTN AGAATGGTAA ATAAGCATTG GCTTCAACTT
AAATTCAAAT CTGCATTGGC TTGTAATAAG AGACTAGCTT GTTACTGAAG CTTTNAAGCC AGTTGTTTTC TCCTATCTAG
CTAGGAAAGT CCTAGATGGT ATCTACTTCC AATAAAAGGC TGTTCTGGCC AGGCGCGGTG GCTCACGC

SEO ID NO:2225: (Length of Sequence = 420 Nucleotides)

GETCEAGGAG CCTGGGCCGG GCCGGGCGG GACTACTCCG GAGTCAGGAG GCAGCAGNGG CGGAGGACGA GGATCTCTGG CAGTCAGCGC CGCTCGGACG CCGCCGGCAC CATGGGCTGC TGCACCGGAC GCTGCTCGCT CATCTGCCTC TGCGCGCTGC AGTTGGTCTC AGCATTAGAG AGGCAGATCT TTGACTTCCT TGGTTTCCCC "TGCGCCCCTA TTCTTGGAAA TTTTCTACAC ATAATAGTTG TCATATTGGG TTTGTTTGGG ACCATTCAGT ACAGACCTCG ATACATAATG GTGGACACCG ATGTAATGAC ATTCAATATC TCTGTACATC GGTCATGGTG GAGAGAACAT GGGGCCTGGT TGTNTCAAGA AGAGTGCTGC CTTCCCTCAA GCCCCATGGC ANNGATGGAC SEO ID NO:2226: (Length of Sequence = 264 Nucleotides)

GTACCIGCTC CCTGCCGGCA CCTTINITGG TGGATATITA GCTGCCCTCT ACAGTGGITA TAACATTGAA CAGATCATGT ACCTAGGCTC GGGTTGTTCC TGTGTCGGTG CCTTGGCTGG CCCTCCACC CAGGGAACAG CACGTCTTGG CAATGCACTG GGCATGATTG GGGTTGCTGG AGGACTGGCA GCCACCCTCG GAGTCCTAAA ACCGGGCCCA GAATTACTAG CTCAGATGTC TGGAGCGATG GCTTTGGGTG GTAC

SEO ID NO:2227: (Length of Sequence = 402 Nucleotides)

AGAGGATIGG GGCACTGGGG CAGGGGCGCT GGCACATTCC TCAGATTCTG GCATGTCATC CTGGAAGTAC TCAGCCTGGC
GGTACTGCCA CAGACGCAGG TTCCCGTCCC ACGAACTGCT GACAATCTTC TCTTCAAAGG GGTGCCAACT GACGTCACGC
ACACAGGCCT TGTGGTTGGT CAGCTTCTTC ACAATGTGGC CACTTAGAAG GTCGTACACA ACCACTTTGC CAGTGGAGCA
GCCACTGTAG ATGAACTGCT GGCCAGTGCT ATGAATGGGG GAGAACCGGC AGCGGATGAG GGTGTGCAGC ACTCCGTGGC
CCCGGTAGGT CATCAAGGAG CTGTCCCCTG GGAGCTTCAG TTTCCGCCAG GCTTTTTTNG GGCACTTTCT GCCACCGATA
GT

SEO ID NO:2228: (Length of Sequence = 394 Nucleotides)

TITAAAGIGG AAACAATGIT TITAAGAGGI GATATAAAGA AATGCCCCCA CIGTAATCCC TACCATATGI TGATTCTATG
TGGIGGGAGG GAGGGGAGAA TGATTCCITT TICTAGAATC AGAGAATITIG GAAAGIATCA AGAAAGATAA TAACAGAAAG
CATGAAATAG AGITGIGCIT TGAAGATGAA TITGGATGAAA TIMITATGIG AAGAGGAGTI TICCAAAGIT GCAGACCCAG
GATTCCIGGC CAGAAGCATG AAAACGITTC TITCTTACIG TITCTAGGAC CTAGGCAGCA TITCTTCCAT GICTGCAACA
ACATAAGAAA CAACAGCCCA AACAGCAGCA GCAACATTCA TCTGCITTGG ATCCCATGGA CAGTCATGGT GICT

SEO ID NO:2229: (Length of Sequence = 342 Nucleotides)

TITITITIAG GATGATIGAG TGTTTCTITIA AAAATAAAAA CCCCACAAAA AAGCCAGAAC ACCCAGCCCA ACCCAGCCCA GTGTAACAGG TTAGCCATTA ACACAGAATA AAGAAGGTCC CAGCCACACA CGTCATTACT CGGCAGAGGG TGTCCAGCCT GGTCGGCCGA CGTCACAGTG GATGGCCCTG CGTGGCTGGG ACACAGACAG GGAGCAGGCA TGGCACCTGC GCCACGCAGA GCAGCAAGGC TGAGCATGAC CACTGGAAAT AAATAAACAT GGTGCCGACA GCATCTTTGA ATTAGTAAGA CGTTAGCACA AAACAAAAAAA GCACAAACGAC TG

SEQ ID NO:2230: (Length of Sequence = 357 Nucleotides)

GIGGAATGCA GCCATCACAC AGTAGITTCT GAGATTGCTI CCGTCTAGGI TITATGGGAA GATATTTCCT TITCTACCAT
AGGCTTCAAG GCGCTCTAAT ATCCGCTTGG AAATACTACA AAAACAGTGI TICAAAACTG CTCTATCAAA AGGAAGGATC
CACACTGTGA GITGAATTCA CACATCACAA AGAAATCTCT GAGAATTCTT CTGTCTGGGI TITATAGGAAG AAATCCCGTT
TCCAACGAAG GCCTCAAAGC GGTCCATATA TCCACTTGCA GATTCTACAG AAACAATGTT TCCAAACTGC TCTATCAAGA
GGAATGTTGC ACTCGGTGAG TTGAATGCAC ACATCAC

SEO ID NO:2231: (Length of Sequence = 304 Nucleotides)

AAGAGACGAG GTCTCACTTT NINGGCCAGG TIGGTCTCAA ACCCCTGGTC ACAAACAATC CTCCAGCCTC ANCCTCCCAA
AGTGCTGGCA TTACAAGCAT GAGCCACCAT GCCCAGCTTA AGGGGGATAT TTTTATAGAG CATCTTGCCC TGGTTCTGGA
ATTCTCTGTA GATAATACAG TTAACAGATA TTCCCCTAAG TGATTAAGAA CCTTTCCATT TGACTGATTT TNCAGAAAAG
TTTTACCTATG TAACCTCAGT GGGTAGCACA ATGCCTGACA CATCTTTGAG GCTCAAATGT CTCT

SEQ ID NO:2232: (Length of Sequence = 354 Nucleotides)

CCTGCCACTG AGGCAGGTGC GGCCCCAGGA CCATCACCAG GAATGCNAGG CCACCCTGGA CCAGAGGTAG GAGCCCAAGG
TCCGGCCCTT GCTCTTGAT TGTGGGCAGC CTCCTGCCCT CTCTGGGTCT CAGTTGCCCC ATCTGCAGAG CGAGGAGGCC
CGGGCTGGTT GGTCTTGAAG GCCCTTTTCC ATGCCGACAT CATGTCACTC TAGGCCTGGG GTTCAGTTTC CTGTGGCTGG
TGATGCTGTG GTTAAGTTTG CTTGACCCCA GCAGCCCGAG GGACTGTCTG AGTCACAGCA CAGCCCCTAT TGCGTGGCTG
CTGGTGTGTG GGGTCAATTC CAGCAGATGA ATGT

SEO ID NO:2233: (Length of Sequence = 414 Nucleotides)

CCCAAAGCCC GCACGATGCA GGCCACINCG ATTCCACCAA GATGGACTGT GTGTGGAGCA ACTGGAAAAG TCAGGCTATT
GACCTGTTGT ATTGGCGGGA CATCAAGCAG ACGGGCATCG TGTTTGGGAG TTTCCTGCTG CTGCTCTTCT CCCTGACCCA
GTTCAGCGTG GTGAGCGTCG TGGCCTACCT GGCCCTGGCC GCACTCTCAG CCACCATCAG TTTCCGCATC TACAAGTCTG
TTTTACAAGC AGTGCAGAAA ACCGACGAAG GCCACCCTTT CAAGGCCTAC TTGGAGCTTG AGATCANCCT TTCTCAGGAG
CAGATTCAGA AGTACACGGA CTTGCCTGCA GTTCTACGTG AACAGCACAC TTAAGGAACT NAGGAGGCTC TTCCTTGTCC
AGGACCTGGT GGAT

SEO ID NO:2234: (Length of Sequence = 394 Nucleotides)

ATAATCCEAG TECTCCATCT TCAGTGCCAT CTGGACTCCC ACCAAGTGCA ACACCTINCA NIGIGCCTT TGGACCAGCA CCAACAGGAA TGTATCCCTC CGTGCCTCCC ACCGGACCAC CTCCAGGACC CCCAGCACCC TTTCCTCCTT CCGGACCATC ATGTCCCCCA NCTGGTGGTC CTTATCCAGC CCCAACTGTG CCGGGCCCTG GCCCCACAGG GCATATCCTA CACCAAATAT GCCCTTTINCA GAGCTACCCA GACCATATGG TGCACCCACA GATCCAGCTG CAGNITENTCC TTTAGGTCCA TGGGGATCCA TGTTTTINTGG ACCCTTGGGC GNCAGGAATN GGAGGGCAGT ATCCTACCCN GTAATATGGC NATATNCATN TNCA

SEO ID NO:2235: (Length of Sequence = 376 Nucleotides)

CTGATATGAT GACAATAAAG GAGTATGCTG CTGCTGTTCC GCTTTGCGTC CTCGCTACAA ACGCCTGGTG GACAACATAT
TCCCTGAAGA TCCAAAAGAT GGCCTTGTGA AAACTGATAT GGAGAAATTG ACATTTTATG CAGTATCTGC TCCAGAGAAA
CTGGATCGAA TTGGTTCTTA CCTGGCAGAA AGGTTGAGCA GGGATGTTGT CAGACATCGT TCTGGGTATG TTTTGATTGC
TATGGAGGCA CTGGACCAAC TTCTCATGGC TTGCCATTCT CAAAGCATTA AGCCATTTGT AGAAAGCTTT CTTCATATGG
TGGCAAAGCT GCTGGAATCG GGGGAACCAA AGCTTCAAGT TCTTGGAACA AATTCT

SEO ID NO:2236: (Length of Sequence = 399 Nucleotides)

TOGCAAGAAC ACTGAAACCC AGCCAACTTC TCCTCAGCTA GGGACCAAAA CCTTTTTGTC TGTAGTCCTT, CCGAGGTTCG
AGACTCTTCT GCAGCCAAGG AAAAGGTCGC GGAGACATGC GGAGACTCCCG AGGTGGAGGA GGAGTCCCCA GGAAAGCGCC
TGGACGCAGG TCTCACCAAC GGCTTTGGGG GTGCGAGGAG CGAGCAGGAG CCGGGCGGGG GCCTNGGGAG GAAGGCCCACA
CCCCGACGAC GCTGTGCCTC GGAGTCCAGC ATCTCCTTCA GCAACAGCCC GCTCTGCGAC TCGAGCTTTA ATGCGCCCAA
ATMTGGGCGG GGGCAAACCG GCTCTTGTGC GACGGCACAC GCTTGGAGGA CCNCAGTNAG CTGATCTTCT GCATCGAGA

SEQ_ID_NO:2237: (Length of Sequence = 234 Nucleotides)

AAANTACTAA CATTITTAAT ACAGTCTGAT CAGATCAATT CACATCACAA GGTCAACCNG GGCTTGCTCA CATGTGNCAC
AACTGAGGNA CACAATGTCC CTACCTGCCG GCTGTCCCAC CTTCCTGGTT CCCAACAGCA TTGAAACCCC CTACTTCCCT
GACCAGACTG GCATTITTTTA AAATTTTGCA TAAAACTATT TCTTCCATAG NCTTCAAACA ATCAACTAGC CAAG

SEQ ID NO:2238: (Length of Sequence = 369 Nucleotides)

ATTTAAGGCT GTACTTAACT AATTTGGGCT GAGGATGAAT ATATCAGCCA CAGCACATTA AAGAATGAGC CAAGGATTTG
TCATGGTTGG TCACTTTTTA AAGTATTGA TTACTGCAAC TGGAGAATGA AAAGTGTATA TTGGTGACGC CAACCTCAGT
TTCTGAGCAC TCCTGCTCTG TGGTGAGAAT CAGACAAAAA TTCATCGGGG TGAAAAAAAA AAGGCATTAC CTGATTCACA
CCCTTGTCTT GCTAGCCCTC TTCCATTCAT TTCTCACACA GCACTTTGCT CTGTTAAATC CTCTCTCTGT CTCAGACCAT
TGCTTGCCCC TTCAAAGGGT ATGGTTCAGG CTCCTTTCAA GACATTTGG

SEO ID NO:2239: (Length of Sequence = 399 Nucleotides)

TTAATATAAT ATTCAAGTCT AGCATTTGCT ATTTACAACA AATAAATATT GCCCCTCCCC AATCAGTAAA CAAACATTTT
TTTTTTCTTT TTGCTTTTTA TACAAATATT CAATCACCCC ACCCCCACCC CAAATCCTCC TTCCTCACTA ACCCCCGTCT
TGCATGGTCT CGTAAAGCCC AGGACGCAGT GGTGAATGGC ACTTGCAGTG GCATGAGATT CAACATCGAT GGGACTCAGC
TGGGACTGTC CTCACTCACC GGGTGCAGAG TCTGGTCCAT GAAGAGGGT TCTNTCTCTG CTCCCAGGGG AGGGCTGGGG
TAAGCCGTGG GTGAGACTCC CTCACTCCA GTTGGNCCTG ATGATGGAAT CTTTNGTGCA GCCTGAGAAA GGCTAGAGT

SEO ID NO:2240: (Length of Sequence = 388 Nucleotides)

TTTTCAGAAT TCATCTCTGA CTTTAATGGC TTAAGCAAGA ACATGGTTTC CGTGGCTCCC CCTGGACTGA ATGCTGGAGG
ATATATACTT CACAGTCTGA GGCCTGGTCC CAGGAACTGC AATCTAACAG GATGGCAAGT GGTTTTGAAA CATATAGATT
TTCAGGATGG AAGTTTGATT CTTCAGATTG TGACTCATCC GTGGAAAAATA AATGGTTTAG CACCTAAATC TGTATATTCC
CATCAGTGGC TTGGCTGACT CAGTTGTAAA TAGGGTACCC TCCATCTGTC TCCCACCCAT ATGCTCCACT GTCCCCAGGG
CCTCAGTGCC TGANCCCTAG GGGGATTCGA GTTGGCTGCT GGATTCATTT CCTGCAAGCA GGCCTGCA

SEQ ID NO:2241: (Length of Sequence = 377 Nucleotides)

CTCCATTTIG TCCTAGITAC TITTAAGGIA TAAGCIGAAG TCATIGATIT GAGATGITIC INCITTICIA ATATAGGIGI TITAATGGIAC ATATITCICC CITAAGIACIG CITTAGIGGC ATCCIGCAAA TICTGACATA CIGIGGITCA TITTAATTCA TITACAAAAATA CITCITAATT TCCCTTTIGA TITCCICTIT AATTCATGGG TTACTTAGAA TIGIGGITAT TAATTINCAA GIACITGGGG ATTTATCICT CICTGITATT CATGICTAAT TITAATCCAG TGIGGICTGA GAATATATTT NGATATCAAT AAAGCIACTC CAGCIACCTT TIGATTAATG TIATCACAGT ATATCTTTTT CIATCCT

SEQ ID NO:2242: (Length of Sequence = 381 Nucleotides)

CCCACATTAA CCAAACACA ACACACATGA CAAACTCTAA GICTCCAGAC AGACACCCIC AAATAGGCAC TIGGIGITIT
CAGCIGGGG CIGGAGAGAT CIGGGGCTIT GGCCICCAAA GGNAGGAGCI GCIGTCCCCA GAGAGGAGAC AACAGCITCT
GGAGGCTCIG GGGACTCATT GGATGGGTAC TGCCTAGGTA GATGGGAAGG GGGCCTGTTT AAAGAAGACC CCCCACCCCC
ACIGCCCATT TCACCACAAC AGTGACTIGC TGGAAGTTTT GTGCCCTGCG GATTTCTGAA TATAGTGGAC AGGCATTTCT
AAAGAAGCCCA TCACTGAAGG GGCAGAGGCT NGCCTTTAAA TGTGGGCTTT GCATGTTTTG G

SEO ID NO:2243: (Length of Sequence = 359 Nucleotides)

ACCATTIATT AAATCAGACT GITATICTIA ACAGITATGI AAGITACATG TATGITIAAG TCAGAGIATI TCACATGGAA
AAGITITITAA CICCIATAGG CAAGCAAAAT CATATCACAC AATATATAAG TGGGAAGGG ATACTGCIAA ACATTCAAAAT
AAGGCAAGIA TATAAAACCA ATAAAACAAT AATGAAAAAA TICAAGCATI CCITITAAGAG AATTCAACAC TACAAGCIAA
ATGIACITIC TGAGTGIATI CGIATAATCA AGGCAGIGIT TCTCCTTITA AAACATCAGG AAATGGAATA AGGCTCATTA
GTAGATACAG CTGCCCTCAA GATTTCAATT TCAGITTGC

SEO ID NO:2244: (Length of Sequence = 362 Nucleotides)

ATATGTACTA CATTTGGTGG AATACGCATG TACAATTCTT CAAAAATAGT AAAGAGCAAA ACAAACAAAA AATAGTAGAA GCACTGGAGA AATACACTAT GGCATAAACT AGTTACGGGT GGGATGTCAC ATGGACCATA TCTACACTCT GTGGCAACCT TCTTACCTGA CTCCAAAGGA TCAGATAATC AAACAGGAAA TTATGGTAGG AAATCAGAAA ATTGAAGTAT GCATTCATAT CCTAAGCATT TTATTTTAGC TCAAAATATA AAATATTCAT CAGTTAGCCA AGCTTTGGGA TGAGAGATCA TAGCCTCCTC TTTGATAGGN GTTTCTTGGTT TTCTTGATTT CATGTTTCAG AG

SEO ID NO:2245: (Length of Sequence = 333 Nucleotides)

AAGGATCIGA GCGAGITCAG TGICATIGIG GGCAACGGGG AGATTAAGCI GCCAGIGGAG ATCAGIGGGG CCATCGAGGA
GGAGITCACT GIGGCCCGAC TCTACATCAG CAAAATCAAA TCAGAAGICA AGICTGIGGI CAAGGGGIGC CGGCAGCIGG
AGAACCICCA GGIGGAGINI CACCGCAAGA TGGAAGINAC CGGGGGGGG CICTCATCCT NCCAGCICCI CATCICICAG
CATGAGGCCA AGATCCGCTC GCITACGGAA TACATGCAGA GCGIGGAGCI AAAGAAGCGG CACCIGGAAG AGICCIATGA
CTCCTTGAGC GAT

SEO ID NO:2246: (Length of Sequence = 347 Nucleotides)

AAACTAGCTT TGGTGGGAAC TCCCTCACCC CTGCTCCCCA CAGGAAGGCA TTAATCTATT TATGAGGGAT CTACCTGCTA
TAACCCAAAC ACCCACCAG CCCCCATCTC CCAACACCAC CACACTGGG ATTAAATTTC AATGTGGGAT TTGGAGAGGA
CAAATATCCA AACCATAGCA GTCTTAAAGT ATTTAAATTA GAATTTAAATTTAA ATTACAGTAT TTAAATTTAGA
ATCATTTGTG GAGTTTCTAA AAGGTATGCA TTCCTAGGCC CCTCTCAAGT TAGATTTATG GACACTGATC CCCAGTCTGG
AATTTTAAAA CAGCAAAATC TCATACT

SEO ID NO:2247: (Length of Sequence = 357 Nucleotides)

CACAGGACAT GCTCCGTCAG CACAAGCACT CCCAAGTCAA TCTGAAAAGC AGGCAGCAGC ATTGCAGGGG ACAGGTCCTC CCCTGATCTG GGTGGTGGTC TTCTCCCACT TAAAGCACTA TATACAGGGG GAGGTCCCAG GCTGGACATC TTTACCAGGG GCTGGGAGAA AGCAGGCCGT GCTCTGTGGT CTCAGAGTCT TCCTGGCGCT CTTTGGAACC TGACAGAACA TGACCTCAGT CCCAGCCAGC GAGTGGCAGA GAGGACTTTG TACTTGGCTG CAATAAAACA TGCCCTTCTT CGCAGAGACA CGAACAATCT CGTCTCTACC AGAGGCCTGT GAGACATCAG CTCAGGA

SEQ ID NO:2248: (Length of Sequence = 327 Nucleotides)

TTCTCTTTAT TAATGGCTAG AAAGTCAGGT TCACCCAAGG AAGTCACTGA GGGGCCACAG CATTGAAGGG TATGGGGTTT
GGAGAGATAG GAGCAGGACC CACCACTCAC GTCCAGAACC CAGGGGGCAC ACCTGGTCCA AGAGGTGGAG GCATTGGTCA
CTGGAGTCAC GAGGGTCAGG ACAGGCACTG AGAGGCTGAG GGAGTNTCGG TCCGGAGGGA GGCAGTCACG GGCTAGGGCT
GGGAGTCGTA GCCAGTNTGC AGGGCCTGGG AGCCCCAGGG CTGATGCCCT GGGCTGGCGT AGTACTCCAC CACCTGCCGT
GGCACCT

SEO ID NO:2249: (Length of Sequence = 404 Nucleotides)

ATTITIANTI TAGGITTGIT TIATITIANGI TIAATGITAA TICCATGCTG TGITICAGTA AGAACAATAC AGATTCTGTA
TCTGTGGCTC CAGTCAGATA TCCAGTAGTA CAAATTAGCT TCAAGTTACA CATACTGAAC AAAAGAGGTT GAGCGAGCGA
AGGAGGGGAG GAGTGAGGGG AAGGAGGTAG GGGGAGGGGG AAGGAGAAGA AACAAAAGNN TTGAACAGGC ATGCAGGCTT
TTCTTTACCA CCTTCAACGC TAACCTGCTT CAGTGGGAGA GTAAAGTAGG CAAGANTGAG CAGCCACAGG ATTGTTGAAC
TGTTACCCAG CACCATGCTT TTCAGCAACA TTTTCAGCGG AGTTTCGGAA CATTTTTTTA CCAGCAAAAA GCATTACACC
GAGT

SEO ID NO:2250: (Length of Sequence = 275 Nucleotides)

TECCAAATAT ATATATCIGA ACATAGIGAA AAAGIAACAT TIAAAATCAG TCAAATTATT TITAAAATTC CITIGCITAA
TAGCCATTAC TIACTCACCT TITGITTTIG TITTINCCTT CAACTACTAG AGTACTGTAC TITIGCITTC ATTCCTTCTA
TACATTCIGC CITCATCCTT AAATTGTTCA ACTCGATAGT GCTAATATTG GTAGATAATC TACGCTAGCT GCTGTTTCTT
GTACAGAAGT TEGITGATAT CGCTGATTCA CITIT

SEO ID NO:2251: (Length of Sequence = 426 Nucleotides)

GGAATAAGGA GATGAGAGCA TGCTCTGCCA ACTGGCTGGG ACCTGAATGT GCTAGGCAAG TNCCACTACA TCAGCTCAAG
AACATAAACA AAAATGTAAT TTAAAAAACA GATGGTTTAA AAAAATATCT GATAAAAATT ACCTATCCCT CTCCCTTGCT
GTGAAAATAAT TTAAATAATT TATTCTAGAT GTAAAAAATAA TAATACAAAA AAGTTTGTTC AAAGACACCT GTGTCCTGTT
TGTTAAGTGT GCAGTCTGGG TCCCTTGGGG TGGAGGGAGC TGGCCAAGGA ATGGCATTGT GCAGAGGCAT ACCGGGAAGC
TCTCTGGATG CAACCCCACC TCTACCGCTT GGCAGTCAAT GACCTTGGGC ATGATGTTTC TTCACTTCTC TGAGGGCTAG
GGCTTTGATT CTGAACATGG GGGGCT

SEO ID NO:2252: (Length of Sequence = 315 Nucleotides)

GAAAAGATAA ACAAAATTAA TAGACCATTA GIGAGATTAA CCAAGACAAC AGGAAAGAAG ATCITAATAA GCTCAATTAG CAATGAAATG NGAGCTACTA CAACTGATAC CACAGAAATA CAAAAGATCA TTCAAGGCTA CTATGAACAC CTTCACGTGC ACAAACTAGA AAACATAGAG GAGATGGATA AATTCCTGGA ATTTTAAGAN TAATACAATG GACTTTGGGG AATCAGGAGA AAGGGTAAGA GIGGGGTGAG GGATAAAAGA CTACACATTG CATACAGTGT ACACTTCTTG GGTGATGGGT GCGCC

SEO ID NO:2253: (Length of Sequence = 335 Nucleotides)

AGATTTATTC TCATGIACAA AGCGGTCAGC CCACGGGACC ATATACGACA GITGCACAGA GICCIAGAAA AACGCATCIN
TCIAAAGGCA ACTCAGAAAG GIAAGGCAGG TGGACCCCCT CCCCCACCCC ACAACGCACA CAGAATGAAA CGGAGAAAAA
GAGAGAAGCC AGTGGCCGGG CTGACCCAAG AGTCCCGGCC CTATGGGGTC TCCCAAGCCC CAGGGCACAG GTGGATATGG
CCTTGAAGAG AGAGCCCTGC CAGGGCTNAG GCCAGGTCTC TCACTGGCTG CAGGAATNGG TAAGGGGCTC AGGCCAAGGG
GAACACTTCA GGGG

SEO ID NO:2254: (Length of Sequence = 380 Nucleotides)

SEO ID NO:2255: (Length of Sequence = 399 Nucleotides)

ATATAAAAAG TETITCTGTG ATTCINCAGA GCCCAGGAGT CAGTGCTGGT GGTTGGAGGG ACCTGCCCCC ACTGGTTCAT
TTAACCCTCT GTCTCGGTGC CCTCAGAACC TCAGCCAGAA AGGCAAGGAG GAAATCAGAG CAGGAGCCTC ATACTCTTGG
TGATCTATTC ATTCTGTGAC CTCAGGGGTC ACATATAAGG TCAGTGTTTC TCGTCCCCGC CGGATCTGCA CTGCCAACTG
GAATTGGGTT CGAACAGCTT CATAAACATC TTCAGCATTT TGTACCATCT GCCCCCAAT GGCCAAAATC ACATCACCAG
GROCCAGACC CAGCCCGGTG TGCAGGGGAG CCCAGGATCA CTTTATGGGA TGAGTACANC ATGCTGAACA TCGGGNAAG

SEO ID NO:2256: (Length of Sequence = 371 Nucleotides)

SEQ ID NO:2257: (Length of Sequence = 372 Nucleotides)

AACTCTATEG CACTAATGTA TGATGGATTC ATTTCCAGAC TGTCGGCCAC GGAAGCACTT CTTCATGGCC TCTGCCCTGG
ACAGCAGCCT GTCCTCCGGG CTCCCCATGT TTTTACCAGC TTCTGCTGAG TTTCTACAAT CTTGAGCTCT GCTGAGAATT
CTTTTCCTTG AAATTCTTCT ACCTAAAAGCC CCAGCCCCCA AAAGAGCATG TCTCAGGAAC TCATTATGCC CTGAGTCAAC
AAGAACTTGT TGATAAATGG CTTAAAAAGTT TTTACAAGAA GTAACTTCCC TTGGTAAGGA GTAAATAATA GCTCTGGGAA
TTTTCCAGAT AAAACTATTT CATTTCTCTG GTCAGTGGCC CCATGGGGAG AG

SEQ ID NO:2258: (Length of Sequence = 340 Nucleotides)

CTCAGCCTCC TEAGAACCTG GGATTGCAGC CTCCCGAGAA CCTGGGATTG CAGGCACCTG CTGCCATGCC CAGCGAAGAT
TTTGTATTTT TAGTGGAGAC GGGGTTTCAC CATGTTGGCC AGGCGGGTCT CAAACTCCTG ACCTCGTGAT CCACCCGCCT
TGGCCCCCCA AAGTGCTGGG ATTACAGGGG TGAGACACCA CGCTCGGCCT TTATATATAT TTTNAGAGAG GGGGTCTCAT
TTTNTTGCCC AGGCTGGTCT TGAACTCCTG GGCTCAAGCA ATCTTCCCGC CTCAGNCTCT CAAAGTGCTG GGGATTACAG
GCAATGAGCC NACCGTGNCC

SEO ID NO:2259: (Length of Sequence = 394 Nucleotides)

CCCCCCAGAT CCCACTGITA GGAGAACGCC TCTGCTAACA TTTTCTCTAT CTTGTTATCC TCTGGGAATG AGACCCACTA
AAGGGCTAGA GTGTTGCTCA GTGTGAATTC CTCTTTCTCG ACTCCATCTT CGCGGTAGCT GGGACCGCCG TTCAGTCGCC
AATATGCAGC TCTTTGTCCG CGCCCAGGAG CTACACACCT TCGAGGTGAC CGGCCAGGAA ACGGTCGCCC AGATCAAGGC
TCATGTAGCC TCACTGGAGG GCATTGCCCC GGAAGATCAA GTCGTGCTCC TGGCAGGCGC GNCCCTGGGA GGATGAGGCC
ACTCINGGCC AGINCGGGGT GGAGGCCCTT ACTACCCTGG AAGTAGCAAG GCCGCATGCT TINGAGGTAA AGTC

SEQ ID NO:2260: (Length of Sequence = 359 Nucleotides)

TTTTTTTTG AGATCTGAGA TTCCTTTAAT CAGAAGCACG TGCGTCCCAC AGTGTGCTCT TCAAGCCCCA AAGGGCACGC
CTCTAGGACT GCNTCCTTAG AGCGAGGCTC GGGCTCTTGG TAAAAAAGCA TTTGCTTGAT TTTATTTAAA CAATGGTGAA
TCTTCAAGGT GCCAGTCTAC ATGCCCCAACA GTCCTCCAGG NTTCAAGGAC ACAGTCACCG TCACTCAGAG ACTGCCTCAT
TTNGCAAGAG AGAAAAACAG TGACCACCAC AGAGGGCAGG GAGTGACAAA GCTTGTAGGC TAATGCTGCA AAAGCCGCTA
GAAACTGGGG GCCACACACA AGNGCCCANC AGGTGCGCC

SEO ID NO:2261: (Length of Sequence = 360 Nucleotides)

TTTTTTTTT GAGACAGAGT CTCGCTCTGT CGCCAGGTTG GAATGCAGTG GTGTGATCTC AGCTCACTGC AACCTCCGCC
TCCCGGGTCC AAGCAATTCC TCTGCCTCAG CCTCCTGAGT TGCTGGGACC ACAGGCGCAC GCACCACGCC AGGCTAATTT
TTGTATTTTT AGTAGAGACG GGGTGTCACC ATATTGGCCA GGCTGGTCTC TTCGAAATCT TAAATCCAAA CATTTCTATT
CTTCTAGATC CCTTGCTCAG GCGAATCCTT TCATCTTTTC CTTATACCTC ATCAGCATGT AAGTGTCTTG ACATCTCTCT
TCTCCTTCCC TATTAGCTCT CTACTCTCTN CANTTACACG

SEQ ID NO: 2262: (Length of Sequence = 348 Nucleotides)

CIGICAAAAA TGTATTATAT CAATAATTIT ATCAGCAGCA TITTAAGAAAT AAGAAATCAT TAGACAATAG AAGACAACA
TGGTAATGCA GTCAGGCCAG CACACAATAC ACCGITTICA TCACACACTG TAACCTGAAT CCCTGGCAAT TTCCTAGAGG
TATTAACATC ATACCTTATT AAGAATTATT GGCCCCNAGG AGINGGGGG TGGGGGGGTT GCAATCTGTC CAATCAACAT
CIGGCTCTTA CITTCTCCCN GTAGTATTAC ATTTGTATAA TATTCTTATA GGAAACAACT CAACTCCATG TTTATAAAAG
CACCATACGG TNTTTCCATC CTGTACCA

SEO ID NO:2263: (Length of Sequence = 352 Nucleotides)

CCCCAAAAGT TGACATGGTC AATGAAGAAA TAGGCAAACA GCAAAAAGTT GCAGTCATAC ACCAAATGAA AGAAGATCAA
AGCAAAATCC CTGAAGGAAT CCAAGTTGAC TCTGACGGC TAATCACCAT AACAACTCCC ANTAAACTTG CCACGCTCAG
TGTTCGAGCC ATGCCCCTTC CAGAAGAAGT CACCCAGNIT CTGGAAGAAA ATAGTGANIT GATTCGTTCT ATGGAGCAGT
TGACATCCTC TTTGAATNAG GGTGAAAATA CTCACATGAT TCATCAGAAG ACCCNNENGA AAATTINGGA ATTCAAAGGA
AAACTTTNAG CAACANCTAA CAGGGNENTG AT

SEO ID NO:2264: (Length of Sequence = 381 Nucleotides)

GCTTACAGTC TAGAACAAGC TTTTCCAGCC CACAGCCCAG GATGGCTTG AATGTGGCCC AACACAAATT CATAAACTTT
CCTAAAACAT TATGAGATCT TTTTGTGATT TGTGTTTTAG TTCATCAGCT ATCATTAGTG TTAGTGTATT TTGTGTGTGG
CCCAAGATAA TTCTTCCAAT GTGGCCCAGG GAAGCAAAAA GATTGGACAC CCCTGGTCTA GAAGGAAAGG CAAATATTAA
ATAACCTCAG AAAGTGATAT TACAAATTGT GGTGAGTTAT AAACACACTA TCAGGTGTTA TAAAGGAAGT GAAGGAAGTG
GTGAGGAAAT TCTTATCAGG GNAGTGATAT TTNANTGAAG GGCCTTAGGG GATGAGTAGG G

SEO ID NO:2265: (Length of Sequence = 301 Nucleotides)

CACICITCCI CCATCCIGCC TITCCACAGC AGICAGICIG GICCAAGCCA CCATCATCIG TCACCCAGAC TACCATAGCC
ATCTCCIAAC TGGICCICCC ACTIGCOGIC TITATTCIGC ACACAGCAGC CIGAGITCAT ACACACACGI GCATTCATTC
ATATTTTGCT TAAAACTGTT CAATGGCTTC CCATGGAACT TGGGAGTCTG GATATCTTCA CAAGTGTGIN GCATGGCCCA
GGACCAATCT GGACACCCCT NCCTGTTTGT NCATNCATGC CTTGCACCAC TNTTTGGCCT T

SEO ID NO:2266: (Length of Sequence = 360 Nucleotides)

CGCCTGCATG CCCCACAACA ACACAACTT ATTCCTCTCC CAAACATCTG TCAGGCCTGG CCTTCCTGAG CAGGAGCTGA
GCAGGAACAG GGCCTGGCTG CCTCTCCTCT GCCACAGCTC TGACCTGGGC AAGGCTGGAA GCTGGCATCG TAATGGATGG
GGGAGTGGGT GGAGGATCTG AGGGTCCCCT GGGTAGGTTC CGATACCTTG GACAGGTGGG CCTCATCCTG ACTTAGAACT
CGGGGAGGGG CCACTCTTCC TTCCCCTTCT TCCAGCAGCA GCTCCACCAC CCTCCACCTT CTGTCCTCGA CATGTGTNCC
AGAAAACCCA GCCATGAGGG ACCGCTNTGA GGAAGGGTCT

SEQ ID NO:2267: (Length of Sequence = 391 Nucleotides)

GATGGAGTCT CECTCTGTCA CCCAGGCTGG AGTGCAGTGG CAAAATCTCG GCTCCGGACC CCCCCAAGAC ACATATGACC CACCACCCCA TCTCTGACCA TGAGGCCACC CTGAGGTGCT GGGCCCTGGG CTTCTACCCT GCGGAGATCA CACTGACCTG GCAGCGGGAT GGGGAGACC AGACCCAGGA CACGGAGGTC GTGGAGACCA GGCCTGCAGG GGATGGAACC TTCCAGAAGT GGGCGGGTT GGTGGTGCCT TCTGGAGAGG AGCAGAGATA CACCTGCCAT GTGCAGCATG AGGGTCTNCC CAAGNCCCTC ACCCTGAGAA TGGGAGCTTG TCTTCCCAGC CCACCATTCC CCATCGTGGG CATNATTGCT GGNCTGGTTC T

SEQ ID NO:2268: (Length of Sequence = 191 Nucleotides)

CTTTCCTCTC CTGTTCACAC AGTATTCGAT TATTTCAATG GCTACTTTCA GAGGATCAGC TAGAGGCTGA TGTGTTGTTT
CAATGGTTAT ATTATTTATG AACTGAGAGT AGAAGAAAAA TTTGAGAGACA GGTTTTTGGA AAAAATGAAT TTAGACAAAT
ATTTAGTAAC TGTATGATAT ATAACTCCCC N

SEQ ID NO:2269: (Length of Sequence = 237 Nucleotides)

TAGAAGCATT TITTAAACAA CACTCAACTT TGTGAACCCC TGAAGATTTT TTGACCGTTC CAAGTCTTAA TGCCACACCA CTATTCCAGC GAATTTATGC TACAACTGGT AACAATGACC AGAAGCCTGA AGAATTAAAA TGCCAACACC AAACCTTTCC MTACCAGCTC TGGNCTATAT TGCTCCCATG CATTTAATAT ATTATMINGT TITTATANCCA CTTCTAAATA TTCTCAG

SEQ ID NO:2270: (Length of Sequence = 223 Nucleotides)

AAAGGTTAAG GAATTCCTT TATTTTTTAC AAATTAAGAC TATGCAGATT TCATATATIT CTGAATCAAA AACACCTTTG
TCTTCACAGT ATGAGTTAGA ATGCAGCCTG AGCTGAAAAAT CAAGAAACTA GAAAAGAAAG TGGTAGAGAT AACTATATTA
AAAANCTGTT AGGTATTCC TTTAAAAAGTA GGTGTTTTTT TTTTTTTNCC NICTITTTTT TTT

SEO ID NO:2271: (Length of Sequence = 363 Nucleotides)

TITGATGGGT GAGGCTGGTA GAGCCACTGG GAGAATGTGG GGCAGTGAGG GGAGGGACAT CITCCTAGCA TCACCAGCAT
CCTGAGCTTT GICTTGTGTT GGGAGTCCCA CAAGGGCTGG TGCAAGGNIT AGCAGCTGCT ACTTGAACCC TAATCCCTGG
GTGGATGTGG TCTCTTGTAA CTTAAGAGCA AATGITTGTN ATGACATGCA CGGGTGGGCA GAGGTTGAAA AGAACAGGGG
TCTACGGAGG AGCCAGGCCA GCCACGTGAG ACCCTTCTTT CTAAGTTGGC TTCTTGTCCA TTCCTGGGGA TTNGGGGAAA
GAACGACAGA ACTTACCTTC CATCTTCCTT CTCACAAGCA GTG

SEQ ID NO:2272: (Length of Sequence = 150 Nucleotides)

CTCCCCCTGT AATCCCAGCG CTTTGGGAGG CCGAGGCGGG GGGATCACGA GGTCAAGAGA TCGAGACCAT CCTGGCCAAC ATGGTGAAAC CCCGTCTCTA ATAAAAATAC AAAAATTAGC CGGGCATGGT GACGTGCACC TGTAGTCCCT

SEO ID NO:2273: (Length of Sequence = 330 Nucleotides)

TATATTATGT TAATAAAATC ATGTATAAGC AAAAGACCTA TGAAAGTATA AAACAGACCA ATGGATTTTA GTATAAAAGT
ACAAAACGTT CATTGAGGTG GGTTCAGTTT TCCCACAAAA ACTAACCTTT AAGAAACTAC CACTTATCAA GTTTTGGTAT
AAGGTATAAT ATGAAAGANG AAAATCCATA ATTATTTGAA AAACACGNCT TAAATACTTT CCTTTTTTCC TACTACATAT
CTCTATTAGG CTGGGTTTC TTCACAACTA ATTGAATACA AAAACAAATA TGAGNATTTA GCTGTAATCT ATTAATCCCG
ACATTACAGG

SEO ID NO:2274: (Length of Sequence = 372 Nucleotides)

AAAAAGCCAG TIGCAGIGGI ATATGCCIAT TGICCCAGCI AATCAGGAGG CIGAGATGGG AGGATAGCIT GAGCCCAAGA
GITIGCGACT GGGCCIGGC AACATAGCAA GACCCIATCI CIAAATCAAT CAATCAATCA AACAGIGGIA TGCCACCCAG
AATAAGTATC TITTITGAAG TAAAAAACAA AAAGCGAAAT GGGAACAACA GGICTGGIAG TGGIGGCIGI CIGICACIGA
CAATGAGGTC TCIGCAGAGC CGITCCCTAC CCINCCCAAC CCCCTAGACA TCAGGTCCCT TTCCTAGGAA AATGAGAGCA
CAGACCTAGG NCCATGGNCT CCCAAACTIT TTCTTCTCTT CACTACAGAT TC

SEO ID NO: 2275: (Length of Sequence = 370 Nucleotides)

CTTATTCTTT TCCTGAGGAT GTTGGTTTTA TATGGATTGT CTTTAAGCAT CACTTGGAAA CGCTACAAAT AATGCAGCTA AATGTTTAAG CAATTAGGAA ATAGGAATTT TTAAATACAG AATTTTGCAC TGCAGAGTGT TTACAAGTAT TAAAAGATTG TATTACACAA CTGTTGTTAA ATTCTAGTAA GATAAATTGA TACTAAAGAA AACAAACCCA GAAAGATCAA GTGACTTGCN TCACACAACA CAGGNATTAA GANGGAAATT AGTATTCTTT GTTGGAATAT TTTCCATTTG AATAGTTACA GGAAAATTTA TTTGCATATT TTACAAATTA AATGTGTATT GGACATCATA GTGGGGAAAT

SEO ID NO:2276: (Length of Sequence = 349 Nucleotides)

TCTCCAGGTC CTGGAGGCAA CCGCAGAAAC AGAACANTGC AAATGCCAGC ATTTCCGCAG ATAAGCGTGG CCCGCCAGCT GCAAACACCC CTGACATGCA GCCGTCTGTT TAAAATCTGG TTGCCCGCTG CAGCCAGTGG AGCTCAGAGG GCTGCCTGGC GGGTAAGGAC TCCAGGCACA CAGCAACAAG TGGCTGCCAC CTCAAATCCC ACGTGGAATA TGATGGGGTC CGAGCCAGCC AGTAACTCCA NGAGGGCTGT AGTGTGTAAG TTCGGCCCAGA GTTTNCAGAT ATAATANCAT TGGCCCCACG ACGTAGACCT GTGGCGCCTC AGGTTAAGA GACGGGAGC

SEO ID NO:2277: (Length of Sequence = 182 Nucleotides)

CTITATATAG ACTOTEGITO TAGAAACTOG COTGCAGCOG CTGGCTGGAC CAGCACACGO TGACGGGGC GGACTATTTA CAGGCCCATT GCGGGCTGTA CCTTGGCCAC CTNCCGGCAC GGTGCTCAGC TGTGACGNCA AAATAAGTTA GGGCCGGCCG GGCGGGGGGG GGCGGGACG GG

SEO ID NO:2278: (Length of Sequence = 276 Nucleotides)

GTATTATTIT CCCCAAATGA AGCAAAGCAA GTACTGGGGC GGAGTCATCA GAAATACCTT GGGAGGTGGT GGGAGGGGA GTCGGGAGCA TCAGGGAAAA CCCATCTCAA CTCACGCCTC TCAGGGGTTG CGACTGGAAA MTCTTGCGTT TTCCATCACT GGTGCAGAAA GAACTTCCCC AGGAATGGCC AGTGGCCTTT CGCCCGTAAC AAGGNCGCAC GCTCAGAGCA GTCTTCCTCC TGGGCTGGGT GGACGCGGAG GCGCGAAGGA AAGCCT

SEO ID NO:2279: (Length of Sequence = 193 Nucleotides)

TECACCCATE GCCCTCCTA GAGCCCCAGE GCCCCTGAGC AAGCAGGGCT CTGGCAGCAG CCAGCCCCATE GAGGTGCAGG
AAGGCTATGG CTTTGGT . GGAGATGATC CCTACTCAAG TGCAGAGCCC CATGTGTCAG GTGTGAAACG GTCCCGCTCA
GGTGAGGGCG AGGTGA. J CCTTATGCGC AAG

SEO ID NO:2280: (Length of Sequence = 401 Nucleotides)

GIGATTITICO TGICICCGIC TCCIGAGIAG CIGGGATTAC AGGIGCCAAC CACCACGCCC AGCIAATTIT TGIAGITITA
GIGGAGACGG TITICGCCATG TIGGCCAGGC TGGICICGAA CICCIGACCI CAGGIGATCC ATTCCCCTCG GICICCCAAA
GIGCTGGAAT TACAGGCATG ACCCATIGCG CCCGGCCCCA CIGITTCCTT TCTAATCGAG TGAGAAAATG GICAGIATIT
CIGICAACAA AATTCATGAG GCTCTTTGIA CGCACAGGAC TTCAGGCCTT TCTCTCAACA ATCGCCAAAG CIGGAGGCAT
CCACAATGGA GGNAACAACT GGGGTTTIG AAAAAACAGG GAATGITTCC AGAATTNITC TTCAAGAGTA TTTACATTTT

SEO ID NO:2281: (Length of Sequence = 217 Nucleotides)

AGCACGGGA TIGICCAAGG GICCICCGGC GCCCAGGCA GIGGIGGIGG CAGCACGAGI GCCCACTAIG CAGICAACAG CCAGIITCACN AIGGGCGCCC CCGCCATCIC CAIGGCGICG CCCATGICCA ICCCGACCAA CACCAIGCAC IAAGGGAGCI AGGGAAACCAA AIGNAIGICC CIGCCCG

SEQ ID NO:2282: (Length of Sequence = 302 Nucleotides)

Charles and the Bridge of

CCGATGGTGA AGTGGTAAGA GGTCGATGGC CTGGGAGTTC ACTITATTAT GAAGTAGAAA TTCTGAGNCA CGACAGCACC
TCCCAGNITT ACACTGTAAA GTATAAAGAT GGAACAGAGC TTGANITGAA AGAGAATGAT ATTAAGNCTT TAACTTCCTT
TAGGCAAAGG AAAGGTGGCT CAACTTCCAG TTCCCCTTCC AGACGCCGAG GGAGTCGATC AAAGGTCACGC TCCCGATCCC
CCGGTCGACC ACCTAAAAGT GCCCGCCGAT CTGCTTCTGC TTTCCCCACCA GGGCGACATT AA

SEO ID NO:2283: (Length of Sequence = 314 Nucleotides)

GAAAAAGTGG AAGTCATCAC CGGGGAGGAG GCGGAGAGCA ATGTGTTACA GATGCAGTGC AAGCTGTTTG TTTTTGACAA
GACCTCACAG TCCTGGGTGG AGAGAGGCCG GGGGCTGCTC AGACTCAATG ACATGCGTC CACCGATGAC GGCACACTAC
AGTCCCGACT AGTGATGCCG ACCCAGGGGA GCCTGCGACT GATCCTCAAC ACCAAGCTGT GGGCCCAGAT GCAGATCGAC
AAGGCCAGCG AGAAGGAGCA TTCGCATCAC AGCCATGGAC AACGAGGACC AGGGCGTGAA GGTCTTCCTG ATCT

SEO ID NO:2284: (Length of Sequence = 262 Nucleotides)

GEOGRACAC ACGCECCEG CCTGTTGGAG CATTITAAAA TCTGATTCCT TTCCCCCTGA AGTTTCCGTT CAACCCTTNN
CTGTGGTCAG GTTGATTNCT TTAATTGCTA AAACAAGTCA AAATTCAATA TCCATGGCAG CTGACAATTC AGACTTTGGC
ATATAAAGTA AAGGGTTTAT TTTTCCATTC CTCTGTAAAT GGTGTTGINT TCACTTATTT ATAGTGCTAT GAAGCTGGTC
ACCTGGGAGA ATGGCATAAC TG

SEQ ID NO:2285: (Length of Sequence = 193 Nucleotides)

GIGAGACACA GICTIGCTCT GCTGCCCAGG CTGGAGGGCA GTGTCTCGAT CTTGACTCAC TGCAGCTGAT GCCCCCTGGG
TTCAAGCGNT TNTCCCACCT CAGCCTCCAA GCAGCTGGGA TTACAAACAT GNACCACCAC GGCTGGGTAA TTTTTGTGTC
TTTAGTAGAG ACGGGNTTT GCCANGTTGG CCA

SEQ ID NO:2287: (Length of Sequence = 342 Nucleotides)

AGGCTGGAGT GCAGTGGCGC AATCTTGGCT CGCTGCAAGA TCTGCCTCCC AGGTTCACAC CATTCTCCCG CCTCAGCCTC
CCAAGTGGCT GGGACCACAG GCACCCACCA CGCCTGGCTA ATTTTTTTTTG TATTTTTAGT AGAGACGGG TTTCACCATG
TTAGCCAGGA TGGTCTCAAT CTCCTGACCT TGTGATCCGC CCGCCTCGGC CTCCCAAAGT GCTGGGATTA CAGGCGTGAN
CACTTGCGCC CGGCCTTCAC CTGTTAGTTT TTCAAGAGGT GTTCGTCATG TCCACTGTGA TAGTTATTTT GTGTGTCAAA
CTGACTGGGC CACGGGGTGC CC

SEO ID NO:2288: (Length of Sequence = 343 Nucleotides)

SEQ ID NO:2289: (Length of Sequence = 160 Nucleotides)

CGGGCCGCAA AGCTCAGCTC CTGGCGGTCC AGGCCCTGGT GGCTCTTGAT GATCAGGTCC ACGGCGGCTG CCACACGNTC CTCTAGGCCC TTCAGCGGCA NAGCGNCTCC AGCACCCTGT TGTGCTCCAT GTCTGTNAAC TGCTGCACGA AGAAGCATAT

SEO ID NO:2290: (Length of Sequence = 310 Nucleotides)

COGACTCTAC TGAAAATACA AAATTAGCCG GGCGTGGTGA CGCATGCCTG TAATCCCAGC TACTCGGGAG GCTGAGGCAG
GAGAATTGCT TGAACCCGGG AGGTGGAGGT TTGCAGTGAT CACACCACTG CACTCTAGCC TGGGTGACAA GAGCAAAACT
CTGTCTCAAA AAAAAAAAA AAAAGNTTAA ATGAGGTCAT GAGGGTGAGA CCCTGATCCA AGCTCATAAG TGTCCTTAGA
NGTGTCCTTA GAAGTGTCCT TAGGACACTT CTTTCTAAGT NTCCTAAGTT GGGGAGCTTG CTCTCCCCAA

SEO ID NO:2291: (Length of Sequence = 270 Nucleotides)

CAAGACAGGG TCTCATTCTA TCTATTGCCC AGGCTGGAGT GCAGTGGTGC AATCTTGGCT CACTGCAGAC TCAACCTCCC
AGGNTCAAGT GATGGAATTC CCNCAGTTTG TCTTTGACAT TAAGANGACA CCACATATAG ACGGCTGTTT GTCAGTGATT
GCCCAGGNAT TCATGGATGC ATTINCTCTC ACAGAGCAGC AACTAGGGAA GGAAGCACCA ACTAATAAGC TTCTCTATGC
CAAGGNTATC CCAACCTACA AAGAAGAAGT

SEO ID NO:2292: (Length of Sequence = 332 Nucleotides)

CAGITGICCT ATATICICCA CCITCCCTIG GITTCATTIC TCITCGCTIC CIGAATGAGA AGTGCCTGAG ATACCITCAT
TTCICTIGAA AGTATIGATC CAAGITTAGA CAAATATCIC CCCTCTIGIT GAGAGAATIC CITATATGIG AAAATACCAA
GACATTCTIG ATATITAGCA GGCACTCAAA TATITGICIC CTCTTTTITA GCATAATTAA GCCAGACTGA TGITTGCATT
TGAGTATCAT CAGCATGAGT AACCNITTTA ATCTCTCTIC CCTTAACTAC TIGITCTACA CTAGAGTCTA GCGTCAGGGT
ACGTACAGTG AT

SEQ ID NO:2293: (Length of Sequence = 255 Nucleotides)

GCACCIGACT TATGIGAGIN TCAGGCTICA ATGCCTGINT TAGAGCTACT CCITCACACA AAATAGITCA GAACATAGAG
AAGGACCAAG GITAATAAAT GATTTINATC CCAAACACTA AACATGATTG ATGGGTAGAG GCTGCCCGAA GTACTGTGTA
AAGATGGAAT CTGAGATAGA AGAATGCTGT GGTCAATTAG TAATTCTTGC CCATGGAGGG ATTAGTGACA CATGCCTTGT
ATATTTGTCA TCTGT

SEO ID NO:2294: (Length of Sequence = 236 Nucleotides)

GGCTTCAGAA GCTATTGGAA GATTCATATC AACTTACTAA TAATCAAGCA CTTTCATATT AAGACAATGI ATGATGITTA
GTAAAATTGA TITTINCCATA AAAGAAGITT AAAATAAATT AGCTATTTCA AGAGNATCAT GGTTGTCAGC AAATAGAAAT
GTTGTGCTTA ACTCAAATCA CAGTAATATT CTGTGGTAGT CAATTGATTT CTTTGAGCCN TTATTCTTTC ATCTGT

SEO ID NO:2295: (Length of Sequence = 308 Nucleotides)

TTTTAATTTA ATCAGTAACT TTATTATAAC AAAACCIGTA TATTACCCAT TTAAACTCAT GIGTAACATT CAGIGATGIG AGCIGTATTA AACCCAGGTA TTAGTGAAAA TTTGCATTGI AAAACCIGGI AACAGTAGAC ATCTATGGGI GGICAGTAAT TCAAGGACAC CITTTATTTI AAACAATTTI ATATAATTCA TATCAATATG CAAAATTACC ATAAAAGATA CANGGATTAA TACATATTTA CATTTTTAGA AATAGTTACT CIGAGGITGA CAGCTGICAC TTTTCTAAAT ATTTACAG

SEO ID NO:2296: (Length of Sequence = 279 Nucleotides)

SEO ID NO:2297: (Length of Sequence = 306 Nucleotides)

CTGAGAGAA AGAGTGTGTT GTAAAGGACA ATGACTITGA GCCCAGAGCC CTGAAAGCTA ATGGAGAAGT TATCATTGAA
ATTCCAACAA GAGCTTGTGA AGGACAAGAA AATGCTATCA AGTCCCTGGN GCATGTACAA TTTNAAGCAA CAATTGAATA
TTCCCGAAGA GGAGACCTTC ATGTCACACT TACTTCTGCT GCTGGAACTA GCACTGTGCT CTTGGCTGAA AGAGAACGGG
ATACATCTCC TAATGGCTTT AAGAATTGGG ACTTCATNGT CTGTTCACAC ATTGGGGAGA GAACCC

SEO ID NO:2298: (Length of Sequence = 307 Nucleotides)

AGTACACCTA GTATCTTTAC AGTGACTATT AAGTATTTTT GAACTCAAAG TATATATTCA TCTTAAACTC CTGGAACTAT
GAACCCTCCC ATGTAATTTN CTGATGAATG AAAAGGAAAA CTTTCTTTCA AATAAGTGTC ATCTGTTGCA AAAGTATGTG
ATTTAAAAAAC ACATGTAAAT ATAATCTTAG CTCTAATGTT TTCCTTTGGG AGTTTGGGAA AAAGCAGTTA CATTTCTCTG
TTGTCTGGTT TTTATCATTT GAAAATTGGA AGGATTCATT CTGGATTGCT GAGCTGCATC AGTAGGG

SEO ID NO:2299: (Length of Sequence = 289

GITTITAATG CATTITITIT AAAGATTAAA GIAAAATGIC TCAATIGIAA AAAATACACA CCGGGCAAAT CCITACCIGG
MIAATAAATA TCIACATCAC AGIACAATAA AATINCINCI CIATAAAATI TAAATATGGA TTATAGICTA TCACTATCAA
AAGAACACI ATGCTAATAT TTCCATATTA TTAAAATAAC AGGAAAAATT ACGNGCITAT TTTAGAACCI GATGCCATAG
CCGITGGAAA GGGCAAAGAG ATTCAAATGI CGATCATCAC TCICCATTI

SEO ID NO: 2300: (Length of Sequence = 371 Nucleotides)

CACCCATTGA AAAAGCAGCC GCCCTCCTTC CCAGGAGCTG CTGAAGAGAG AGCCTGCCAG AGCCTTGCCA GCAGGGACAG
CCTCTTAGAT ACCAGCAGCG TCTCAGAACC CAACGTGTCC TTTGTCTCNC ACTGTGCGGA CAGCAACAGT GGTGACATAG
CTGTNATCGN GGAGGTCCGG ATGGAAAACC CAAAGGAGAG TAGCAGTTCC CTGAAGACTG GGAGGCACAG CTNAGGCCAA
GACAAACCAC ACGNAACTTA CCGACTGCTG AAACGCAGGA NTCTGATCAT AGAAGCTGTC ACCAATCTTC GCTTAATCGA
GAGTTTATTC ACGGTTCAGA AGATGATCAT GGATCAGGAG AAGCAGGAAG G

SEO ID NO:2301: (Length of Sequence = 287 Nucleotides)

ACTIGITETT GGGATTIGIT GIGAGGITTG CIGACACCIT GACCATTITIT CACTGGCIGG AAATGAAAGG AACTICCCAC
TIGCTCITTG AAGGCAATTC CATTCICTCC AGGTCCITA TITCCITCCC ATATTCICTC ACACTCCCAA ACTTCIGAAG.
AAGGGAGCAA ACTITGGCCA CGAGGAAGGA GINGAGCIGC CICIGIACTT GICACTGCAC CIGCACTGGT TGAATCCACC
TITTCCIGGGT CACGCCGCIG TGCTGGGTGG TCACAGCCTA GGACCCC

SEO ID NO:2302: (Length of Sequence = 358 Nucleotides)

GGAACACAG ATCCAAACIT GTCGGGGAAC TCGGAGAGAA GATCATCGTT GGCGCGGTCC TTGGTGGGCC CAAGGATGAT
GATGGGGCGA GCATAGTGCA CTTCCATCTG CGTCACTGTC TCGTAGCTCA GAACCGAGTC TTGTCGACCC TGCGATCCAG
AGCTGGAGCC CCAGTCCTTG GCCTTTAACC TTGACCACTC TCGTCGCTCA ACCCGCCGTT TGCTGGGGAT GAACCCAATG
TCGTCGGTCT CACTGTCAGA GTGGACCCGC CGTCACTGCC ACCACTCCTC ATCACTAGCA TCGATGACAT GCAGCACATN
CCCAAAGCGG AAGTTCAAGG GCCTGGCTCA GGAAGCCG

SEO ID NO: 2303: (Length of Sequence = 403 Nucleotides).

GICAGGGCT CCAGATCATC CICCTCLAAG SECCCGCAG GCGCCTCCTT GGCCTCTGGC TCCTGCTTGC CGCTGGCCTC
CAACATCGTC ATGATCGAGT TAGGGATGIN AGCTTGCTGG TGGGGGGTGA AGGACCGGAC ATGGGCCAGC AGGGCTCCC
GGAGCTCTGG GCACTTNTCA AAGACGGCTC CCAGCTGCTG GGGCGCANT GCAGGATGAC CTGGAAGCTC TGGGGCTTTG
TGCGCTGGCA GCACTTGATG AAGCCCTCCC ACACCTTGGG GTACTTCCAC AACTGCTTCA TGATGAGGCG GGACAGGATG

TTCATGACGG AAGCCCCCCA GGCGGGGTA CATGGTCANG GACCTGGATG ACGGTCCTCA TGAGCAACAT GGGCAACGGG

SEO ID NO:2304: (Length of Sequence = 376 Nucleotides)

ATCTTGCTAT GITGCCCAGG CIGGTCITGA ACTCCTATIC TCAAGAGAGC CICCTGCCTC AGCCTTGIAA AGCACTGGGA
TTATAGGCAT GAACCACCGC ACCCAGCCAA GATTGCCATT TTGTATGATG AGACTGGAAG GACCCCATTG TTTCAGGATT
TTGCTACAAT ATACAAAAAAA CAATCTGTGA GACAGTGGCT GGGCTTTTTT CCTGCCTGAT TAGTTCAGTG CACATACAAC
TTGGACCAGA GGATCTGGGT TTGAATCCCA TCTCTGATAC TTCCCAAACT GAGCTGTTTT CCTTATTTGT AAAGACTAAG
ATCGCGTATG TCAAAGAGCT CTGTAAACTC TCAACACATA CAAAGTACTA CTGCTG

SEO ID NO:2305: (Length of Sequence = 354 Nucleotides)

CTGCCCAGCC TGCTCCTGGC CCCCTGGAAG CCTCCCCACA GCTGGTAATC TGGACTTAAG GATTGCTGGG CCACCGCCTC
TCTGCCTACC ACCATTCCAT ATTTAAGTGG AGCCCCTACG TAGAAAGGCC CCGGGGCTTT ATTTTAGTCT CCTTTTCAGG
GATGTCGTGG GCGGGGGAGG GGGTTCTTGG TGCTACAGCC CTCTCCCCAC CCCTAAAGGG ACGCCGACGC TGTTTGCTGC
CTTCACCACA TATTAGTGCT TGACCCTGGC AGGGGACCCC ATGGAAAAGA TGGGGAAGAG CAAAATACAT GGAGACGACG
CACCCTNCAG GGATGCTCGC TTGGGATTCC CACG

SEQ ID NO:2306: (Length of Sequence = 345 Nucleotides)

CCAAGATCCT AAGTAATTCC AAATGCCTTA GATATCAATG AAAGCTACAC ACCATTGAGA TGGGCAAAAT TCTTTCTCTA
CAAAGGGAGT AATCAAGTAA ATACCTGTCC TCTTTCAATG GACTGTTGCC TATTGAGCAT TGTGGATGAT GTGTTTTCAG
ATTTCCAGGT GAAGTTCTGA CCCTACCTGT TTGGCCAAAG ACGTAAATTG AGAGGAAAGG CCTTGGTCTT CCTGATCAAC
CAGCATTTAA CGAACAGTGG CTTAATGCAG ATCACTCAAG AGGNAGCATA GCAATGTAAA AGGAATATAA GTAGGTGTTG
GATGCCTTTT TCCTAGACCA GGAAT

SEO ID NO:2307: (Length of Sequence = 337 Nucleotides)

AACAGAATGT AAAAATACGC AAGTCAAAAC CTGGTAGAAC TGCATGGAGA AACAAATGGA TTCAATATTA TNAGTCGGGA
AATTCAACGC CCTCCTATCG AAAATGGACA GATCCAGCAG GCAGAAAATT AGTAAGGACA TTGTTGAGCT CTGCAATACC
ATCAATCAAC TGGATATAAT GGACATCTAT AGACTACTTC AACAACAGCA GAAGATACAT TCTTCTCAAG CTCACATGGA
ACATTCACAA AGATAGACCA CACGCAGGCC CATAAAGCAC ACCTTAACAA ATTTAAAATA ATATAAATCA TACAGTGTGC
TCTCAAACCC NCAGTGG

SEO ID NO:2308: (Length of Sequence = 216 Nucleotides)

GAGGAGIAAA CINITITICIG AGAAGCATGC TIAGGITGIG GGACAGGAAG TGGIAAAGGC AATGCATCGI CCACAGAGGI GGATGAAGCA GINACAAAGG AATGATAAIT INANCIGCIG GIGGCATCIN CACTGCIGGA GIGIATGGCA GCAATCATCI TACTCICCAT CATCCIGGIG GGGGGCAGIN GIGCAGGAAA GCCACAGGGA TICGCA

SEO ID NO:2309: (Length of Sequence = 289 Mucleotides)

GGGGCTATGA AAATACAAAA AACATTAGCA CATTCATAGT ATGTATGTGT CTACAGGCAT TINCCCAGCC CTATGAGAGT NCTGCAATTT GAGAAGTACT AAAATGTATT GTTTGGTGAC AAGAACTGCA ATAAAAAGAT AAATGATTTN CTGAATGTTG TGGCCAAAGGA GTCTATTTCC ACTGCCAATTT CTGCTACTAT TAGCTTAAAA ATTGCTGAGA CAAATGACAA CTACACAT ATNCTGCTGA GATCTAATGC AAAGTCCTCT CAGANGCTTC ACTACACAT

SEQ ID NO:2310: (Length of Sequence = 359 Nucleotides)

CTENGGCTG CCTCTCGTTG GTCAAATCCA ACCAAAAGCT AAGAGCTGGA GAGCTTGGGT GGTGCATCCA AGGAGGCTTG
CTTCCTGGGG CACAGAAGGG AGAGTGGAGA AGGATGGAAA GTGGCTCTAG GGGAGGAAAT GGAGAACATC CAGAACTTTA
TGTCACCTCT GGTGCTTGAA GGCCTTTCTC CAGGGAGACA AAAAGTTTGT NITGGCTAAA GCTCCCTGGT TGCTCAGGAG
CCAAGGGTCA CATAATGTGC CAATGGGGGT TTTTGCCTCT GAAAGCCTCT GAGGTATAAT TACTTGCAAT GANAACATCC
CTTTTCTCTC TCTTCCTCTG CCCACCTTCC ATGCCAAGG

SEO ID NO:2311: (Length of Sequence = 324 Nucleotides)

GTINGGGCC GGCCIGGCA ACATAGACAC CATCICITIA AACAAACAAA CATCATTAGI TICTACATIC TACAAGGIGA AAGACTAATT AGAAGTGAAA AATACCACIG AAATGIIGGI GTACAAATGG CAGCATAATT TGATTTACAC TAGATTITAC ACATTIGIGT CTATITCAAA TAGGTACITT TACATTITCC TTAACTGCAT CIGACACAGA GIGAATCACA GATATATGIT GGIGTCGAAA GCAGAGGITA CTATTATTAA NCGAAAATTT TIGIGGITTT GCAGTCATCA TATCTAATGI GGITACAGAT TGIG

SEQ ID NO:2312: (Length of Sequence = 362 Nucleotides)

GNAGITIATA AAGCITTATI AAACAITICA AACAGCIGIG CAACGAACAC ACCAAATAAA AGCICIAGAA TAGCAGICCA GACGITICAC AAGTATGGCC TCACAGTCCC ATTCCCTAGA TGGACTGCCT CCAGTNCTGT NCTCTGCCTG GCCCATCTCT CTTTCCCCTC AGGCAAGAGA GAGATGGATG GNTCAGACTG AAAGGACAGG CATGCTGATC TCCAGCAGGC AGGGCCCAGG AGAAAGTCTC GTTTGCCAAC ACTTGTTACT GAAGCGCAGA AAAAGCAGCA AGTGACAGTC ACAAAGTCTT CCTGGGGTAT TCTTCATAAC GTACAGTCTA TATGCGCAGG AACGAGGAAG CT

SEO ID NO:2313: (Length of Sequence = 449 Nucleotides)

TGTAATTITT AAATTAAGAC TGCCTTAGIG AGAAAATTIC AGCAGGIGAG TTAAGGGCAC GAGGAAAGGG CCTTTGIGCA
GAAGTAATGA CATAGGCAAA TTGTCAAAGG AGAGGITCCC TGGIGTATTI NITAGAAGAAA GTAGACCCAT GINICTGAAC
CCAGCACACA GTTCACTTAT GGTGGTTTIG AAATCTGCCC TGGAATTINC ATGCATCTIT TAAATTITIG GTTTATTTTT
NCAAGAAATA AATGAAGTCT TTATTTTINC AATGAGGGCA ATGTTTATTA AGAACAGCAC ATAAGGTAGA AAAGAAGGIT
GGTTTCTAAT CTTCGTTCAT CTCCCCCACT GATCTTGAGT TTTAAAAGCA TAGAGAGCAC GATCCTTCTG TGGGGTCTCC
ACTGTCAGAG AGCCTGINCA GATGAGCAGT CACACTGTTA CTCCACAGC

SEO ID NO:2314: (Length of Sequence = 316 Nucleotides)

CGAGGCAAAC ACAAAGGGCT CCTTCTGCTT CTCTGACCCC ACCTGCAGCA GGTAGTGGAT AACAGCCCCT ATGGCCTCCT
TCATGACGCT CACGAGCTGC ACCTTCTGTG GCTCCTTAAG CAGTGACTGC TCACAGCGAG TGCATTCCTG GNTCCCCAAG
TCCATGAGGG CATAGCAGGC GGTCACCACA TCCTCTTTCA CCTCCGTGCC CGTNTCCTCC AGTGCCAGCC GCACTTCCAC
GNACGNCAGA TTCACCAGCA GGGCCAGGAA CTTGCTCCCG GAGCTGCCCG CCGGGATCCA GTCGGAGCCG CAGGTG

SEO ID NO:2315: (Length of Sequence = 286 Nucleotides)

ATTITIATOT GTAGACAGGE TGTGGGTTCC CCTCACTTAA ATTGAAGCTC TGTTGAACTT GAGACACTTA AGANTCTTGC
AAGTNTGAAA AGTGGAGTGA AACAAAACCA TTTCTAAAAC GAAAATGTGT AACTNCNITC AGTTTTACAC AGTGNAGAAA
TAAGTNTVAA ACAAGTTAGT CTCAAACGGT TATATCTTAA GGTCATTTTA TTCCTGTTAT CATTAACTAG ACATATCTTG
GTTTAGAGAG CAGCACACAA GACATTGTGT ACTNITTAAT AGCTAA

SEQ ID NO:2316: (Length of Sequence = 414 Nucleotides)

ته وُلُحِيُّهُ بَنْيُحِيْدِ شُوع إِلَيْ

AATCATAGCT TACTGTGGCC TOGATGTCCT GAGCTCAGGC GATCCTCTCC TTATAGCCTC CAGAGTAGCT GGGACTATAG
GTGCGTGCCA CCACACCCTG CTAATTINAT GTTTTGAAGA GACCGGGTCT CACTTTGTTG CCCAGGCTGG TGTCAGACTC
CTGGGCTCAA GCTAAATCAC CCACCTTGGC TTCCCCAAAGT GTCGGGATTA CAGGTGTGAG CCACTGCGCC CAGCTCTGAT
TTTTTGTATTT CTTACTTAAG GCGACCATACT TAGTAGCTGT GCGTCTTGGG GCAGATACCT CCCAAAGCCC CAGTTCTGTC
ATCTATAAAT AATGTAACAA CAGGGCCCCG CTCGCAGGGT TGCTGTGTGC ACATATGTGT GTGTACGTAC CCATGTGCCT
WTACGAGAAG GGCT

SEO ID NO:2317: (Length of Sequence = 166 Nucleotides)

GCAGTGACIA TIATIAACAT TACAGIACCA AGCATCCGCA AGAGACAGIC ATTIGINATT TITNATCAAG AAATAGGGCT
GTTTIATACT GITATIGACA TCAACTITIT CCCAGTGCAT TITTCAAAAA TATTAATAAG TICATICCTT TGTGCTTTIA
ACTICC

SEO ID NO:2318: (Length of Sequence = 374 Nucleotides)

TITATITIAC ACTIACAAAA GAAATGCCC ACCCCTTGC CCCATTCCCC CAAAACAGTC TCTTTTTACA AACATTIAAA
AATTAAAACC AAATGAAGAT AGACAAGTTA ATTTCAGTAC AATTATTTIN CAGTGTAGCT GICATAATTA GAGTTTAAAT
TTCCTACAAG TGACCAATGT CCCAAGTGACT TATAGGGAAA TCCTGATTAT CGGCCAAAGG AAATTCAATA TTACAAGTTA
GCAAATTCTT AGTACAAAAA TAGTCCGTGT GTTGGAACAG CTTTTCCTTG TTACATAGGT CTTAGGTCAG TCTGCTGINA
ATACCTTAAC GNITCCGGAT TCINNTCTCA CAAATG CAAATG CAAATG CGTG

SEO ID NO:2319: (Length of Sequence = 380 Nucleotides)

CATCITAGIT CATGGIAATC TCCITGGCAG CACITATIGI CITTGIGIGA GAGCAAATGA TAGAGICATC CATTCAAGIT
AATTAAGAGC ATCIGCATIG CAAAACIGGI CACTAAATTG CICGCCAAAT TIGAGGCTIT TITTCCIGCCA ACACAAATTA
ATTITITAAG TAGCAGCATT TICAGGAGAG ACCAAATAAA GAAAGCAACA ATAAAGITGC CIGTCTAGIG AGATGICCCC
AAACIATCAA CITTAAACAT ACCITIGCCI TINATAGIAG TICTTCACAC AAACIGCCIT AATCAAAATG CGIGTCICIT
GCICIGICAT TITATGITTT GGCICITTAG CAACCTAATT GIATGGITAG ACAGATTCCT

SEO ID NO:2320: (Length of Sequence = 348 Mucleotides)

GGAGITCTCT TGTCCACGGA GAGCAGTGTT GCAGTGTATG GAATGCTAAA TCTTACCCCA AAGGGCAAGC AGGCTCCAGG
TGGCCATGAG CTGAGTTGTG ACTTCTGGGA ACTAATTGGG TTGGCCCCTG CTGGAGGAGC TGACAACCTG ATCAATGAGG
AGTCTGACGT TGATGTCCAG CTCAACAACA GACACATGAT GATCCNAGGA GAAAACATGT CCAAAATCCT AAAAGCACGA
TCCATGGTCA CCAGGTGCTT TAGAGATCAC TTCTTTNATA GGGGGGTACT ATGAAGTTAC TTCCTCCAAC ATTAGTGCAA
ACACAAAGTA NGAAGGTGGT GCCACACT

SEO ID NO:2321: (Length of Sequence = 330 Nucleotides)

ATCIAGACTI TNAGITCCCI GCATCIGCCA CCGIAGITTC TAGCAGGAGI AGIGGGGGGA GIAATACAGA TTCINCCCIA GAAGGGGACA CIGGIAACAI GICCCACTCI TGGATTAGCA GGGGTGCC CAGGAAGAIG ATATTINCNI CITTIGCCCA CCCCCCIGGC ATTCAGCTGG ACCCAACTAG GCCATCATGA GIGGCTTCTC CCTGTCATCC CCAGGGGTCA TAGGATATCI ACACCGCCTT TNIGACCCCA CCCIGCACTC CCATCCITTC CTCTCTCCCC GGTTCATGCC CIGCACTACA TAGCACAGCC GGGATGCTIN

SEO ID NO:2322: (Length of Sequence = 352 Nucleotides)

TTGACAAGTA AGTGTATATA TTTAAGGTGT ACAATGTGAT GCTTTGATAC ATACAGTGTG AAATGATTAC CACAGTTAGG
TTTAATAATT AACATATCCA TCATCTCACA TAGGTATGAT TTCTTATGTG TGTGGCGAGA ATCCTGAAAA TCAACTCTGA
GCACATTTCA AGTGTACAAT ACAGTATTTA TGATAGTCAC CATGCTGTTA ATCAGATTGC CTACCTTGGT TAAAGTGCAG
ACTCAGGTGA AGGTCTGGAT GGAGGATCAT ACTTTAATTG ATTTAGACTC TAAAATAAAT GTATATAGTT ATTTTTGCTA
ACCTAANGAA CCTACTCATA AATGGGCTAG TG

SEO ID NO:2323: (Length of Sequence = 316 Nucleotides)

GAGACAGAGT CICTCTCTGT CGCCCGGGCT GGAGTGCAGT GGCACAACTC AGCTCACTGC AACCTCCGCC TCCCAGATGT CCAAGTGATC AAGGGGTTTC ATTTGCTCTT GGGGGATTAG GTATCATTTG GGGAGGAAGC ATGTGTTCTG TGAGGTTGTT CGGCTATGTC CAAGTGTCGT TTACTAATAG TGGAGACGGG GTTTCACCAT GTTGGCCAGG CAGGACCTCA GGTGATCTGC CCACCTCAGC CTCCCGAAGT GCTGGGATTA CAGGCATGAG TCACCACACC CGGCTTCATT TATTTTCTTA TCCATG

SEQ ID NO:2324: (Length of Sequence = 300 Nucleotides)

GGGGACAGGA GGTGACCTCG CGAGCAGACG CGCGCNCCAN ACAAGCAAGC CCGCCCCGGC CTCTCGGGAG CCGTGGGGCA
GAGGCTGCGG ANCCCAGGAG GGCCGGAGCC CTCATGANIT CANTINACCTG CTTCTCCCCC TNTAGGTCTA TCAGCCACAG
TNTCTGCAAG TTTCCAAGAG CAGCAGAAAA TGAACACATT NCAGGGGCCA GTTTCATTCA AAGATGTGGC TGTGGATTTC
ACCCAGGNGG AGTGGCAGCA ACTGGACCCT GATGAGAAGA TAGCATACGG GGATGTGATG

SEO ID NO:2325: (Length of Sequence = 303 Nucleotides)

CIGICICAAA TAATAATGAT AATATTINCT TATGCITACT TTACTGIAAG ATTACAGTAT ACATTACAAC ATATGCGITT ATTGACTGIT TATGITATIG ATAAGGCTIC TAGICAACAG TAGGITACTA GIAATTAAGT TITTGAGGAG TCAAAAGTTA TGGGGGATT TICAACTGIG GACTITGGIG CCICTAACCC TGGGTGGIC AGCGGGCAAC TGGGTATTCT TTCIGIGGNA ACATTITTAG ATGITATAGC CTITTAGACAT TAGAAATGGA AATTTAGTIG AACTCCNGTG TTC

SEO ID NO:2326: (Length of Sequence = 348 Nucleotides)

GETGAGGTC TGGTGGCACAT GACACAATCT CTCCCGTCCC TGGAGGCCAG CTCCCCCGTG GCCAACCTCA GGCCTCCCAT
GCCAGGAGGTC TGGTGGTCGG GCAAGGCCAC CGTCTTGCCG AAGTCTATCA TCCAGACCTT GGCCAGGCG GTGTGGTCGT
GCAGGAAGAC GAGGGCAC CGTCTTGCCG AAGTCTATCA TCCAGACCTT GGCCAGGCCG GTGTGGTCGT
GCACGAAGAG GAGGGACCTT CCTACCAC

SEQ ID NO:2327: (Length of Sequence = 392 Nucleotides)

AGCTGTTTTT TCCTAGCTGC CAAGACTGTT GAGGAAGATG AGAGAATTCC AGTACTAAAG GTATTGGCAA GAGACAGTTT
CTGTGGATGT TCCTCATCTG AAATTTTGAG AATGGAGAGA ATTATTCTGG ATAAGTGAA TTGGGATCTT CACACAGCCA
CACCATTGGA TTTTCTTCAT ATTTTCCATG CCATTGCAGT GTCAACTAGG CCTCAGTTAC TTTTCAGTTT GCCCAAATTG
AGCCCATCTC AACATTGGC AGTCCTTACC ANGCAACTAC TTCACTGTAT GGCCTGCAAC CAACTTCTGC AATTCAGAGG
ATCCATGCTT GCTCTGGCCA TGGTTAGTCT GGAAATGGAG GAAACTCATT CCTGATTGGC TTTCTCTTAC AA

SEO ID NO:2328: (Length of Sequence = 256 Nucleotides)

ACGAGCACAC TCTTCACAGT GCGGCCGAAC ATCAGAAAAT GGGAGCCTTC TTCTAATGGC TGTNCTTTCT TGTTCGGAAA AAAAAAAAAC AAATCCTCCA AACCACACCG GATGGTTGTA AAAAGCTGCA ACGGAACCTT TGGCACCXGA TGAGAAGAGA GECCITTIAA TGCCATAGCT AGTGATGATT CANTCAAAGC ATCAGTCTAA GGAAGGATGA TGGGGGAAGG GACCNNAGAT CACAGNCCTT CTCCTT

SEO ID NO:2329: (Length of Sequence = 383 Nucleotides)

AGTAGAGACA GCATTICATT ATGITGGCCA GGCTGGTCTC GAACTCCTCA CCTCAAGTGA TCTGCCTGCC TCGGCCTCCC
AAAGTGCGGG GATTACAGGC GTGAGCACNC ATGCCTGGCC TTTTTTTTTT TTTTTTTTAA CGAAGTTATT TTTCTAGAGC
ATTCATAGTT TGTTTTTATA CAGTTAAGGT TCTCATCCAT CTGGATTTTT TGGTAAGTGT GGGGAGAATA AAATGAGGAG
CCNCTGTTTT TTTCTCCAAA TGGCATGTAT TGTCCCAACA CAATTTATTG AATCAATAAT TCATCTCTC CATACGAATT
TAAACTATTG AACTTTCACA TCAAAATTTT GGAACTACAA AGTAGGTTTA ACAAGGTGAG AAC

SEO ID NO:2330: (Length of Sequence = 392 Nucleotides)

CGAAACCRIC TCAACCTATT CTCAAACTT AAATGGGTAA GAAGCCCACT GGTCAGCATG GCAAAGCCCC AGCTCTAATA
AAAAATGCAA AAAATTGGCT GGGAGTGAG GCGGGGCCCCT GTAATCCCAG CTACTTGGAA GGTTGAGCTG GGAGAGTTGC
TTGAGTCTGG GAGGCAGAGG TTGCAGTGAG CCGAGATCAC ACCACTGCAC TCCACCTTGA GCAACAGACT GAGACTCTGT
CTCAAAAAAA AAAAAAAANT TATGCAAAGT GTCTTTTCCA ACAAAAGTGT AATGAAGCTA GAAGTCAATA ACAGGAAAAC
CTGGGNGAAT TTGCAAGTAA GTGAAAGTTA AACAACATTC TTAACCAGTG GCTCAAAAGGA GGAAATGACT GG

SEO ID NO:2331: (Length of Sequence = 284 Nucleotides)

AAGAAAAGTA AATTCATCTT GCTCACAGTC CTTTCTGGAA GAGTTTAGAA AGCAAAGAAT TCACCGACTC AGCAGGAAGC
AGAACGAGCT GTTCCTTCTT TTGACACGCA CAAGCTAATC CCCTAGAGAG TGGGGATGTG GGAAACGGAG GGTAATTAAT
TCTTTGGTCA CTGGTTCACT GCTGAATAGC CTTGGTCAGT TTTGGCTCTC TCCTATTTTA GGGGGAAAAA TATTTTNGTT
TCTTTTTTTT AAAAAATAAA ATGTTCGCAC AATGGGAGAA AATT

SEO ID NO:2332: (Length of Sequence = 349 Nucleotides)

ATCITAAAAA GATTITIGI ATTINCITIT GAGACIGGGI CICAGICIGI TGCCCAGGCI GGAGIGIAGC AGCCIGATCA
TGGCTCAGIG CAGCCTCIAC CICCCCGGC TCAGGIGATC CICCCCCTIC AGCCTCCIGA GIAGCIGGGA CIACAGAGGI
GIGGCACCAT GCCCGGCIAA TITTIGIATI TITTIGIGGAG AIGGGGITIT GCCATGITGC CCAGGCIAGI CITGAACTCC
TGGATGIGAG CCACTGCGIC TGGCCTATTA TITTAAATAT AGITCICTIT ACTGCCAGTA GCITTCATAT AACCCTAGCG
ACTAGATTIA GICACCACTG CITAATTCC

SEO ID NO:2333: (Length of Sequence = 353 Nucleotides)

CCACCICICC GITCICIGCT TCINAACCAC AGCCGCATCC TATTIGCAGC CCICAAGAIT AAGGATGAAA ATTIGACITT
TTAATITIAT TATTICITGIT CITCCITCCT ACTICATIAG AATCATGITA TIGGCCIAAA ATACIGIATG TAAAGGATGC
TCIGGGGCCC ATCIGGAAGC CIGCATTCIC TGGGGATATA ATTACGCTAA GCAATTTITC ACCAGGGACA GCATGACTTA
GCTTCIACCT GGGCATCCIC TGGCAACACA GCCCTCAGIT CITCCAAAGG GATTGGCIGC TGICCCITCA GGCCTTCITC
TTGWGIGIGT GIGTGIGIG GTGTGIGIGA TTC

SEQ ID NO:2334: (Length of Sequence = 279 Nucleotides)

GOGCCTTCTA CNAGCTGCTG CTGCCGCNCT CATNCTGGTG GOGATGCTGC AGCTGCTCTA CCTGTCGCTG CTGTCCGGAC
TGCACGGCA GGAGGAGCAA GACCAATATT TTAACTTCTT TCCCCCGGTCC CCACGGTCCG TGGACCAGCT CAAGGCCGCAC
TCCGNACGGC GCTGGCCTCT GGAGGCGTCC TNGACGCTAG CGGCGATTAC CGCNTCTACA GGGGCCTGCT GAAGACCACC
ATNGACCCCA ACNATGTGAT CCTGGCCAGG NAGGCCAGC

SEO ID NO:2335: (Length of Sequence = 386 Nucleotides)

GCCITITIGI CATGGIAGCA AAGIGGCIGC TGIGGCICCA GGCATCACAC CCTCAATCAA GGIAGGAAGA AGAGGCCCAG
GGAGGIGITA GCCATGCCIG TITCITITAT TGGAAAAGCT TTCCCAGAAG CCCAGGIAGA CTTCCTCITC AATITCATIG
GCCACACCIG ATCACATAGC CATCCIAAGC TGCAAAAGGAG ACTGGAACAG TGAAAAATCIG GATTITACAGC CTCCACAGIT
GGAGIGGCIG GAGATACAGA GTIGGGACGA CCCCTGAAAA GIGAACCAAG GTCGICIGCA CGGCTGCCCT GGAGGGCGIG
GIGCTIGAGG TCCCTTCTAC CTCIGGGGCT TCATGGAATG ACTIGTIGCC TCCATGGAGC ACCTCT

SEQ ID NO:2336: (Length of Sequence = 258 Nucleotides)

SEO ID NO:2337: (Length of Sequence = 338 Nucleotides)

ATCTCTTTC CCACITCATA AAAGCAAAAT ATGTAAGACT AGCATCTGGT TTTTGTCCCA ATAAAAAAAT CCCACAACTT
TCAAGATATC ACTCTAGCTT TCTAAAGTAG AAAGGCAATT CAGGCAACAA AAAATATTTT TTAAAAAATCT ATAGCCCAAA
TCACCAAAAG GTAAGGAAAG AACTTTCCTA GCAAGCTCTG GAGAAGACCT AATTTGGACA TCAAAAATGGA GCTTTCAGAC
ACTAATCAAG GCCATTAATT AAAAAAATTT TTTCAGGAAA ATAAGGCAGG TTGGATCTCT TTTCCCACTT CATAAAAGCA
AAATATGTGG CAGACTCT

SEO ID NO:2338: (Length of Sequence = 410 Nucleotides)

GEGICITECT ATECTECCTA GECTEGTCTT GAACTCITCA ACTECAGTCT TEACCTCCCA GECTCAAGTG ATCTTCTTAC
ATAGGCCTCC CAATGTGCCA GGATTATAGG CATGACCACC ATGCCAAGCT CCAGATGGTA TTCTTAATTC AGCTCACAAT
GTGCCCTCAT CAGATTGCTA GTGGCCAGGA GTGAACAACT GAGTGACTIT AAGAATCAGG ACACCAGGAA TATGTTCCTA
GAAAGTGAAG GTATGAGTGG AAAACCTGGG TTGGATTATG AACAAGGCCC ACATGTGTGC CAGAGTGGCC AGGGCAGGGA
GCAGCAGCAG GTGCTGGTGA AAGGAAGGTG GATTACTGGG GGCAATGCCT GTCTTTGTGT TATGGGTTTC TTTTGAGGGA
AGTAGATAAG

SEO ID NO:2339: (Length of Sequence = 336 Nucleotides)

AGGGGAGGAG GGGGCTAAGG GCGGCTGGAG GAAGAGCGAA ANAGATGGAA GCCTTCCGGC AGAAGGCAGA GCTGGGGCGT
TINTIGAGAC ATCAGTATAA CGCTCAACTC AGCAGACGCA CACAGCAGAT CCAAGAGGAG CTGGAGGCAG ACAGGCGGTNT
CCTGCAGGCC CTCCTCGAGA AGGAGGACGA GAGCCAGCGC CTCCACCTGG CCAGGCGGGA GCAGGTCATG GCCGATNTGG
CCTGGNTGAA GCAGGCCATT NAGGNGCAGC TTCAGCTGGA GCGGGCGCG GAGGCAGAGC TGCAGATGCT TCTTGAGGGA
GGAGGGCCAA GGAGAT

SEO ID NO:2340: (Length of Sequence = 290 Nucleotides)

TTITAGTAGA GATGGGGGIT TCTCCTTGTT GGTCAGGCTG GTCTCGAACT CCCGACCTCA GGTGATCCAC CTGCCTCGGC
CTCCCAAAGT GTTGGGATTA CAGGCGTGAG CACNCGCGNC CGGCCTTCAG TTTCTTCCTA GGCCGTTCTG TCACCCCAAAT
AGCTGCTACC CAGAGNGGCG GGGTTGACCT AGGCTGAATA TCCACTTTGT TTTTATGGAT GGCTNCCTTC CCCCATTCGN
CTTTNCCAGA ATATCCTTTC AAGTTNCANT TTCCCAGGGG AGCTCTTGGG

SEO ID NO:2341: (Length of Sequence = 298 Nucleotides)

TTTTGCTTAT TACCCGATIT ATTAGAGAGA TCTCTAAAAA GACGGGGTGT GGCGGGGGTA GGTGGGCGAG GAACCTGGGA
TGCAAACCAG TGTTTGGGGC CAGGAGTGGC TGTATGGTTT CANAGGCGCC CACCACTCTG GGTTTGAGGG ACACAGCACC
CTCGTCTCGG CGCTTTGGAT TNTCACGCAC CAGACCACGG GGCGGAGGAA TGGAGTGGCA TCCCTGGGGG GAGTTAAGAC
ACACGAGGTT TGCAGTTTCA TTTTGTTTCA GAATCAGTTT GGCCATAAAA ATGGGACT

SEO ID NO:2342: (Length of Sequence = 316 Nucleotides)

CCTGAACAAG GTCGTGGTGG TGTGGAATTC TCCCAAGCTG CCATCAGAGG ACCTTCTGTG GCCTGACATT GGCGTCCCCA
TCATGGTGGT CCGTACTGAG AAGAACAGTT TNAACAACCG ATTCTTACCC TGGAATGAAA TTGAGACAGA GGCCATCCTG
TCCATTGATG ACGATGCTCA CCTCCGCCAT GACGAAATCA TGTTTGGGTT CCGGGTGTGG AGAGAAGCTC GGGACCNCAT
CGTGGGCTTC CCTGGNCGTT ACCACGCATG GGACATCCCC CATCAGTCCT GGNTCTACAA CTCCAACTAC TCCTGT

SEO ID NO:2343: (Length of Sequence = 380 Nucleotides)

GGAAGAGAG GAAGGTTGGA CCTTCATCAG ACCACTCCCT TCCCCCATCC TCCAGGAGAG GGGGCAAGGG CAACCCACCA
TCTACCCACT TACTAACCTG GTCCTAACCC CCTTACTGIG CGCGTGTGIG TGCGTGTGCG CACGCTCTGG CTGTTTGTCT
ATATGTCTAG CTCATCTAGT TCCTCTTCTT AAGGGGATGG GGGTCAGGGG CTAGGGGAGG GGGCTGAGTT TCCCCACTTT
AGGAAGGAGGT GGGGGCTATT TCTATGCAAA TAGAAATCAG CACATTCCTC CTACTTCCCT TTCCTCCACT CCCCCCATAT
CTTTAAAGTG TGGAAGCAGA AAAGGACCTG CATTTTTCCT ACAATTGAGG AGCTGACATA

SEO ID NO:2344: (Length of Sequence = 282 Nucleotides)

GGGAATATAT TTATGCAAAT TTTATTGAAA TTTATTGTAA ATAAAGNTIT TCNCAGTGGN CTAGAAAANC AGCTTGAATG
NCATTCAGCA TTTATTGAAG AAGGATGACA TCCCINCCAC TTATTGCACA AACTTGGTAG CTTTGAGACA AATACAGTAG
CACAGTCCGT TTGAAGATTT GTCCAAAAAA TTAGTCCATA TTTTAGTGGC TCAGTGTCAA GNGTTCCCTC CCTGTGCCCC
CACTGTTGCT TCTGCAGTGA TACGAAGGAT GAATGCTTAA TT

SEQ ID NO:2345: (Length of Sequence = 256 Nucleotides)

CTITATAGGA AGCIGCAAAA GAAATGAGCA GAGCENGATA TITGIGGIAA GGGATACAAA GAACATACAA TIGIGIACIT GAGAGGITTC ATGGAACATT ATGACCCATC CAATGNAGAC ATCAACATTA ACAACAAAAA TIANITGAGG AAGAGCAGTA TGAAAAATATT CIAATGCAGI GCIGICCAAC AGAACITTCT GIGGIGATGG AAATGITCCA TATCITTGIG CIAATACAGA ATCTACCAGC CACATG

SEO ID NO:2346: (Length of Sequence = 437 Nucleotides)

GIGGAGATTG AIGCTICINI TITTIGITGC CGCTGCTGCC CTCGCGCTGG GAGCGAGCC GGAGGGAAGG CGGTGGAGAG
ATGATTGCAG AGITGGTGAG CAGCGCTCTG GGGCTCGCCT TGTATCTCAA CACCCTGAGT GCGGATTTCT GCTATGATGA
CAGCCGTGCT ATCAAGACTA ATCAGGACCT TCTCCCAGAA ACTCCATGGA CGCACATTTT CTACAATNAT TTTTGGGGGA
CTCTTCTAAC CCACAGTGGC AGCCACAAGT CCTACCGGCC ACTCTGCACT CTTTCTTTTC GCCTGAACCA TGCCATTGGA
GGGTTGAATC CCTGGGAGCT ACCATCTTGT CAATGTCCTG TTGCAATGCA GCAGTCACTG GTCTCTTCAC AAAGCTTCTN
CAAGATCCTC CTTTGGTGAT TGGATACTGG ACATTCA

SEC ID NO:2347: (Length of Sequence = 406 Nucleotides)

COCGGCCCC CCTTTCCGCC GGGGGGAGAC CCCCAGGTTC ARANTERGCC TGTTTGCTAC ARCTCAGGT TTTGCTAACCA GTGGGACCAG CATGTTTGGC AGTGCAACTA CAGACAATCA CAATCCCATG AAGGATATTG AAGTAACATC ATCTCCTGAT GATAGCATTG GTTGTCTGTC TTTTAGCCCA CCAACCTTGC CGGGGAACTT TCTTATTGCA GGATCATGGG CTAATGATGT TOGCTGCTGG GAAGTTCAAG ACAGTGGACA GACCATTCCA AAAGCCCAGC AGATGCACAC TGGGCCTGTG CTTGATGTCT
GCTGGAGTTA CGATGGGAGC AAAGTGTTTA CGGCATCGTG TGATAAAACT GCCAAAATGT GGGGACCTCA GCAGTAACCA
AGCGAT

SEO ID NO:2348: (Length of Sequence = 363 Nucleotides)

GGCCTTTCAA GNAGCGGCGG ANTICGCCGA CCGCTGTAAG GAGGTACAGC AGATCCGCGA CCAGCACCCC AGCAAAATCC CGGTGATCAT CGAGCGCTAC AAGAGTGAGA AGCAGCTGCC CGTCCTGGAC AAGACCAAGT TTTTGGTCCC GGACCATGTC AACATGAGCN AGTTGGTCAA GATCATCCGG CGCCGTCTGC AGCTGAACCC CACGCAGGCC TTCTTCCTGC TGGTGAACCA GCACAGCATG GTGAGTNINT CCACGCCCAT CGCGGACATC TACGAGCAGG AGAAAGACGA GGACGGCTTC CTCTATATGG TCTÀCGGCTC CCAGGAAACC TTCGGCTTTC TGAGNCAGCA GTA

SEO ID NO:2349: (Length of Sequence = 332 Nucleotides)

TCCTCCTACT GATGTCTTC AGTAGATTCA GAAGTGATTG TGGCAAACAT AGTATCTTGA AGGAAGAGAT CGTGTTTTGA
TTAGCATCTC CCGAGCCTAG TTTTGTGTTT ATGTTCATGG TATTGAGGAA ATAAAGATCA ATTTGGACTT CTTGCACCTG
TTAATACATC CTAGTTCCTG ACTGCAGCAA AATGACTCTC AGTGCCCCTT TCTCTTCTTA GTGATTGCCT AAGATGACAG
CTTCATTCCC TTTTAATTAT TATCCACCTT CTTCCCCCATC TTCANTTGTT TTCTCAAGTG AGGGACTTGG CCTCTACTGG
GACTCCACTG GG

SEO ID NO:2350: (Length of Sequence = 339 Nucleotides).

GAGATGGAGT CTCACCCCTT CGCCCAGGCT GGAGTGCAAT GGCACGATCT CAGCTCACTG CAACCTCTTC CTCACAGGTT CAAGCAATTC TCCTGCCTCA GCCTCCCGAG TAGCTGAGAC TACAGGCGTG TGCCACCATG ACCGGCCAAT TTTTTGTACT TTTAGTAGAG ACAGGGTTTC ACCATGTTGG CCAGGCTCGC CCCGAACTCC CGACCTCATG ATCCACCTGN CTCGGCCTCC CAAAGTGCCG GGACCACAGG CATGAGNCAC CGCACCCAGA AAAAGCAAAT CTCTTAGTAT TTTTCCTCTT GTCCAAAAGG TTCTGACCAT GTTCATGAC

SEO ID NO:2351: (Length of Sequence = 354 Nucleotides)

AGAAGGACCT GAGTTGTGGC CAACAACAGG CTGCAGAAAG GCAATGCCAT CCTGAAGATT TCTCAACTAA GAGTCTGCAC CCATGACAGC CCACGAGAC CCTCGCTCCA AGTTTGTGGA GAAAGGGAAC CCGCTTGGCA GCATGTGGAA AGACCCCACG ATGAGCAGCA GACACAGCAA CGCTGCCTCC TACATCTCGA CAGCATCTGT GTAAGACTCG CTAGCATCTG GTGCACACAC TGTATGAGAC AGCAACAGCC AGAACAGACA GCTTTACGTT GATGAACACA CAGACGGTGG CGCATGTTCA GAGATGCCGA GGGGACGCCG CAGTTCCCAA AATCACCTCT GCCC

SEO ID NO:2352: (Length of Sequence = 378 Nucleotides)

GTIGITIGIT TAGIGGAACA CTCAAATCAA AAACAGGCTC ACGGTCTGAA TAGTCTTCTG GTCTAAGCAA CTCAGCACCA GCGCCCCCAA GGGGAGGCCG CCCTTGTCCT GGCCCCGGGA AGAGACGCAG CTCCAGCCCC GACGCAGACC CCATGGCGCA CACAAGCCAGG CAGAGCTCGA GGTNCAGGCG GCTGCCTTGC GGGAAGTCGC TGGGGAGGGG TCCCTNGCTG AGGCTGCACC AAGGGCTNGG GAGAGGCCCA GGAAGGGGAAGTT CTNGGGCCCC ACAAGCTTAT GGTTGGCA

SEO ID NO:2353: (Length of Sequence = 369 Nucleotides)

CIGCCTTATA TAATGIGGAT GCIGGGCACA GAGCIGICAT CITIGACCGA TICCGIGGAG TGCAGGACAT TGIGGIAGGG GAAGGGACIC ATTITCCAT CCCGIGGGIA CAGAAACCAA TTATCITIGA CIGCCGIICT CGACCACGIA ATGIGCCAGT CATCATTGGT AGCAAAGATT TACAGAATGT CAACATCACA CTGCGCATCC TCTTCCGGCC TGTCGCCAGC CAGCTTCCTC
GCATCTTCAC CAGCATCGGA GAGGACTATG ATGAGCGTGT GCTGCCGTCC ATCACAACTG AGATCCTCAA GTCAGTGGTG
GCTCGCTTTG ATNCTGGAGA ACTAATCACC CAGAGAGAGC TGGTCTTCA

SEQ ID NO:2354: (Length of Sequence = 363 Nucleotides)

GGAGAGGGAT TGGCATCGGC ACCATGGAGC TCCCAGGGCT TAGAGATGGA GCAAAGITGG CCTCACCTTG GGGAACCATT
CCTGCTCCTG GATACTGGAA GACATTCTGC TGCATCINAG GATTGATTCC AGTGCCAAAC TGTCCTCCTA TGTTTCCTGT
CATGCCTCTG CTCACCATGC TGTTGCGGTT GGCCAAGGAT GCTTCAGGAT TINCTGCTAG TTGTGAAAAC GGGCTGGTAG
AAGCAGGTGG GGTTCCTGGG ATTTGTACCA TAGTTTNGTG GATAGGGGAA TTGCTGTGGA GCACCCTGAG GAAGACGGGG
GTTNCCCATT TNAACTGGTA GTCCAGATGA GGGAGGGAGG GTT

SEO ID NO:2355: (Length of Sequence = 403 Nucleotides)

AACCAGGAAT GGAGGGCCTC CTCATGTCTG AGGTAGAGTA AGACGGTGTC AGGGGGCGGA CCCGGGGGG GAGATGAGCA
CCGGCCGCAC TGGGGCATCA TCCNGGCCCA CCCGGGACGA TGGGCCGTGG GAGGGCTCAG GGCGGTGTGG TGGCCACACT
GCGAAGAATG GATTTTTAAA ACACTTCATA GCCCCGANTT TNTTTCAGCT CCCTCTTCGT GGACACAACT TCAGGGCTCC
CTTGTCACTG GCTTTCGGGG GTGGTCTCCC CACTTGCAGA GTCTGGTCTC CACAGGACAC CGTCCTTCCC TTCCCTTCCA
AGGGGCAGGN CCCCACGNACC CTCGCCCAAA AANTAAAGGA GCTTTGTGTT TGAAAACGCC AAGGCAAGCC GTCCAAGGGA
GCTT

SEO ID NO:2356: (Length of Sequence = 456 Nucleotides)

SEQ ID NO:2357: (Length of Sequence = 412 Nucleotides)

CCACCCCATG CCCAACAAGC CATATTGTCA ATAAATAAGG AATAACTGAA ACCAGACCCT TTAGGAAGAG ACAGAAATTC
CATTACCCAG GAAACCACTC AGTGAAGATG CTGATAGTTC TGATATGTTC TTATGCCCTG CCCCCTTCCC CCAAAAAAACC
ACCIGCAGAA CCAAATGTTT CTCCTCAAAAG CCCATCAGCA CAGATTGATA ATAATATCAC TATCAAGCCA GGGCTAGTGC
TTCTCTACAT ACTGTACTGT CACAGGTACA AAGCAAGCCC TGGACAGATA CTGTCTCCCT GCCCCCACAA ATCCAGGGAG
GAAAAAGACC AGGGANGCTT TGATTTCCTT GGGATTTAAA CCTCATGTTC AAAAAGGNTA ATAAAGGTGC TCGTACTTGT
ATCTTCTTCC CT

SEO ID NO:2358: (Length of Sequence = 399 Nucleotides)

AGATGGCAGC AGGITCAAGI GGGGCCCCII GGATGCCTAA GCCTGGGGAC GACTACAGCI ACAATCAGII TICCACATAT GGGGATGCCA ATGCCGCTGG TGCTTATTAT CAGGATTATT ACAGTGGTGG CTACTATCCT GCACAGGACC CGGCCCTGGT CCCCCCCCAG GAAATTGCCC CAGATGCCTC CTTCATCGAT GACGAAGCAT TTAAGCCGCT GCAGGGCAAG AGGAACCGAG GGAAACAGAAG AAGAGAAGA AAACCATGAA GTCATTCAGC AAAAAGAAAG GTGAGCAGCC AACAGGCCAG CAGCGGCGG AAACACCAG

SEO ID NO:2359: (Length of Sequence = 352 Nucleotides)

CTTCATTAAC AAGCTGCGAG AGAAGCTGGG TTGCCAGGAC GCCTTCCCCG AGGTGTACGA CAAGATCTGC AAGGCCGCCA
GGACTGAGCT GGAGCCCGCC TGGAGAGACA GACACGTGTG AGTGGTCAGG CATCTTCCCT TCACTCAAGC TTGGCTGCTT
TCCTAGATCC ACACTTTCAA AGAGAAACCC CTCCAGAACT CCCACCCTGA CAGCCCAACA CCACCTTCCT CCTGGCTTCC
AGGGGGGGCAG CCCAGTGGAA TGGAAAGAAT GTGGGATTTG GAGTCAGACA AGCCTGAGTC CAGTTNCCCG TTTAGAACTC
ATTAGCTGTG TGACTCTGGG TGAGTCCCTT AA

SEO ID NO:2360: (Length of Sequence = 359 Nucleotides)

TITITITCAG CATAGICATO TIAGOTITAT TGAGIAAGGO ATOCCAATOT CIGOTAAGAT TOTNOTAAAT GAACGGOTGA
TITITCOTGCC AAACTATGCA TIGGICAAAG AGAAATCACO ACCIGGOCAC COCATICTGI COCCCTACAG GACACTAAGG
GITCITACAG ATAAAGGGAC GATGCATTCA TGCCTGGAGA ACTAATCACA COTGATTTCI CIGGGATCTA AANTAATGTC
AAATTITGAT TCACTITATG TAAAGAAAAA TCCTTTINIT TITNIGCAAA CONCTITCAA GANCAATGCI GCCCATCCCA
TGCAAGATGT TGTTGTAAGG CCANONICTG GTATACTAA

SEO ID NO:2361: (Length of Sequence = 437 Nucleotides)

CTCCAGGATT CCAATCCAGT CCGAACTCAA CACGAGGGGT GCACCTACA GGCTGGGGTC AATCTGGAAG ACTGCCTGTT
GTATGGCCTG GCAACTAAAA AATGTTTTTT ACATTTTTAA ATGGTTAACA AAATTAAAAT AAGAGAATAT TTCATGACAT
CATCAAATTA CACGAAATGC AAATTTCAGC ATCTACAAAT ACAGTTTGAT TGGGACACAG CCACCCTCAT CCGTTTGCAG
GCTATCCCTG GCTGCTTACA GGGTCCACAT AGTCCATAAA GCCTGAGGAT ATTTACTATC TGGCCTTTTA CAGAAAAAGG
TCCCCAAAACA CTAAATCTGA AATGTTTTGC ATCAGAACCC CTTGTGGGGC TTGTTAGGAA TGCAGCTCCC TGGTCCCACA
NCCAGTCTCT GGATTCAGTA AGTCTGGAGC AGGGCCT

SEQ ID NO:2362: (Length of Sequence = 317 Nucleotides)

CTICICIGGA TGIGCCIGGG CTIGGACIGG CTAGAATCIT TCICIGGACT NITGCATGTA CAGRENCICC ATCCIGGAGG CAAGAGAGIT GGGAGTGGCT CGAATCANAG CCGTGCCCAA GATATCCCIN CTGITGCATC GITTGAAGCT GACGICCTGT GICINIACAC TGCTGCCACT GITGINICCT CCNTCIGCTT GCTGITGCCT CACGCCAGGN CCCGTCCTGC CGTGACANCC TTCATCCTAC CCTTGGAACC CCCAAGGCCAA GITGGITCAA ACTGITGGAG AACAGAGTTG GCCTGCATCT TGGAACA

SEO ID NO:2363: (Length of Sequence = 412 Nucleotides)

GICAGAGINI TGATAGITCI ACIGGGAGAC CACAAAATGA CATGGICCAT CCTCCTCCTT ATCCAAAGAT GCATGGITAA
AATAATATAG ATTAGGAATC ATCGITACCT CCAAACAGIT AATTCAATTC AAATTRITAG CCCAGACTGG TITITAAAGA
CATTITICIGC CAAAATTITI TGGAAATAAA CACATTAAGG GIAGGIGIGG AGAACGATTA ATGGATTCAT TTITATACTC
ACATCIGITI TGGAAATATA TITITATGCAA TAAAGCATAA ACIAACAGGI ATACTTATAA ATGICIGGIT TTAGAAACAC
TAAAAGATCT CCAATCITAG GAGGCCITAA TITIGAAACTC TGCITTTATT TGCCTGAACT AGIGGCTAAC CTGINTAGGC
ATCTCACGAG GG

SEO ID NO:2364: (Length of Sequence = 334 Nucleotides)

GAAATGATIT AATATTAGGA AAGGCAAGIN CCTCGAGACA TITATTTAAG CTAATCTGTC CITGATTITT GACTITCAGA
TICATTACAC CYAGCCACAT TAGCCTGCAC CATTAAAAAC ATTGATTCAA CCTCTCTTAT TGGCATAGAC AATACATCTC
CCTTGTTCAC TACTCTATCC TCAGCTTGGT ATTTCTCTAG CACAGAAGAA TGGTCCAGTA GATATGCTGA AGAAATACCT
GAATGCATAA ATAAATAAGA AAATGAGAGA CTGAATGANT CAATTAATAC CTCAAGTGTT ACCCTNGATA AGGTTCTAGA
GAGGGGAGGT TCTA

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SEO ID NO:2365: (Length of Sequence = 423 Nucleotides)

TTTTTTGCCA TTTAATAAGT ACTITATIGA TATTATATCA CACAGCACTT TACAGTATAC TCAAAGATAG CCTAAATTAT
GAATTAAACA TGCAAATATT TNCTTTTCCA AAATGTGGAC AAAATGTCTT TTAGAGTGCT TTTGAACACT AGCCTTAGCT
ACTAAGCATT CATGGGTTTG ATCTTTCTTG CGACATGACT TTAAGTAAGT TAACAAAAAA TGTAGCTGTA GACAGTAATT
GTTTGATAAA TATGANCAGT TTTAAAATGG CACTGAATTT ACATCTTTAA TCATTTTAAT AGGGCCATCC ACAGCTCTC
TTGTGTCTCT AATTCTCAAC CTCCGGGGTC TTTAAAGGGC TGGTAAAGGC TCAGAAAGTG NCCAGCTCCA TGTGGGGTCT
CTGTAAGNNG TCTATGTCTT CAT

SEO ID NO:2366: (Length of Sequence = 294 Nucleotides)

SEO ID NO:2367: (Length of Sequence = 393 Nucleotides)

ACGGACAGAG CGAAGGGGAG AGGATGGTAG TGTCTGACTT CCACGTTTTC GTCAGGGATG TGTTGCAGCA TGTGGATTCC
ATGCAGAAAG ACTACCCTGG GCTTCCTGTC TTCCTTCTGG GCCACTCCAT GGGAGGGGCC ATGGCCATCC TCACGGCCGC
AGAGAGGCCG GGCCACTTCG CCGGCATGGT ACTCATTTCG CCTCTGGTTC TTGCCAATCC TGAATCTGCA ACAACTTTCA
AGGTCCTTGC TGCGAAAGTG CTCAACCTTG TGCTGCCAAA CTTMTCCCTC GGGCCCATCG ACTCCAGCGT GCTCTCTCGG
AATAAGGACA GAGGTCGACA TTTATAAACTC AGACCCCCTG ATCTMCCCG GGCANGGGCT NAAGGTGTGC TTT

SEO ID NO:2368: (Length of Sequence = 187 Mucleotides)

GATCTIGAAG TIAAACCAGI GITAGAAGIT TIGGIGGGGA AGACAATINA GCAGICICIT CIGGANGIAA IGGAAGAAGA AGAGCIGGCI AACCIGCGGG CCAGICAGCG IGAGIATGAA GAACIACGGA ATAGIGAACG TCCIGAAGIT CAACGACIIG NAGAGCAAGA NAGGCGACAC CCAGAAG

SEO ID NO:2369: (Length of Sequence = 341 Nucleotides)

GTATCTTIAG TAGAGGCGG GTTCCACCAT GTTGGCCAGG CTGGTCTCGT ACTCCTGACC TCAGGTGATC ACCTGCCTCC
TCGGCCTCCC AAAATGCTGG GATTACAAGC GTGAGCCACC GCGCCTGGCA CCATCAGTTT TTGATCCTGA TACTTGTCTG
TCCTCTTGGT TCTCCTCATC CCTAATTTAA CCTTGAACAC AAAATTCAAC AGGTTTTGGC ATATAGAATA AAGATTATCA
GGCAAAGGCG CACTCTTGAC CTAATGATAT ATCTACATTT CATTTCCTGA TCTATCAGCA ATATTTAATT TGTCTAGAAA
TGATGAGAAG TTTTAGAGGAG G

SEQ ID NO:2370: (Length of Sequence = 337 Nucleotides)

AGATCAAGAT CTCTCCCAAA ATGCCAGTAT GCAAAGGACA CTTGGGGCAG CCTCTCAACA TTTTCTGCCT GACTGATATG
CAGCTGATTT GTGGGATCTG TGCTACTCGT GGGGAGCACA CCAAACATGT CTTCTGTTCT ATTGAAGATG CCTATGCTCA
GGAAAGGGAT GCCTTTGAGT CCCTCTTCCA GAGCTTTGAG ACCTGGCGTC GGGGAGATGC TCTTTCTCGC TTGGATACCT
TGGAAACTAG TAAGAGGAAA TCCCTACAGT TACTNGACTA AAGATTCAGA TAAAGTGAAG GAATTTTTTT GAGGAAGTTA
CAACACACAC TTGGATC

SEO ID NO:2371: (Length of Sequence = 320 Mucleotides)

COTEGOCICA GAGGCAGCTG AGCATGAGGG ATGGAGCGTG CTGCTGTCCT GCAGGTGCCG TTAGCCCTGT TTTGCACTGG
TGGATTGATC TGCTCAGGCG CACAGGGAGA TGGCACAGCA GGACCCGCCG CCCAGCCTCG CTGAGGGCAT GCTCCCGCCT
CACCTCCAGA GGCTGTTGGG CGGAAGCGAG AGCTGCAGCA GTTGGGGCCCA GCNTGGGACT GGAGGCCCAG GTGAATCTTG
TGGGGCAGGG GACGGAGCTN AGGCTGTCCG GCCCGGGCCC TTCCCACCCA AAGGCCCTAG AACCCTAGGC CTTCAATCCT

SEO ID NO:2372: (Length of Sequence = 326 Nucleotides)

AGGCCTGGCA TGCGGCGAAA AGTTCCTGGA GAAGGCCTCC CCCTCCCCAA AACACCCGAG AAACGTGGGG ACCTCATTAT
TGAGTTTGAA GTGATCTTCC CCGAAAGGAT TCCCCAGACA TCAAGAACCG TACTTGAGCA GGTTCTTCCA ATATAGCTAT
CTGAGCTCCC CAAGGACTGA CCAGGGACCT TTCCAGAGCT CAAGGATTTC TGGACCTTTC TACCAGTTGT GGACCATGAG
AGGGTGGGAG GGCCCAGGGA GGGCTTTCGT ACTNCTGAAT GTTTTNCAGA GCATATATTA CAATCTTTCA AAGTCGCACA
CTAGGA

SEQ ID NO:2373: (Length of Sequence = 361 Nucleotides)

AGCAGAGCTG AGGAAGGCG TAGGATGGCT CCACCTTCCG GTCAGTGGCT ACATGGTCAG TTCCATGATG GCGTTGACGA

TGTCACTGTG GTTGTNTCTC AGAGCCCGCA CGGCCTTGGC CCTGGACACA TTGGCCTGCG CCATCACCAG CTCAATGTCA

GGGTGCTGAC TCAGGGACCA AGGCTGAGGG CTCTGAGGGN ACCTTAAACT TCTCAGCTGC GGCTTTGTGC ACTTGCTGGG

ACAAGGTCCT CAATCTTGGN CTCGCCAAAG ACCACATAAG T

SEQ ID NO:2374: (Length of Sequence = 281 Nucleotides)

TEACTICIAGI CIGGCACITA ITGATGACAI IGAGAGGCIG AAAIATGAAA TINCAGAGGI GATGACAGAG ATCGACAATC
TAACIITCCGI AGAGGAGAGC AAAACGACIC AGAGGNACAA ACAGATAGCC ATGGGAAGAA AGAAAITCAA CATGCNICCC
AAAAAGGGAA ITCAGIITICI AATAGAAAAI GACCTGCIAC AGAGIITCCCC AGAAGACGIC GCCCAGIITCC TITATAAAGG
AGAAGGCCTA AATAAGACCG TCATTGGGGA CIACCTGNGG I

SEO ID NO:2375: (Length of Sequence = 391 Nucleotides)

ATGITTAGIG CITCCITCAG GAGCICIGGI AGGCAGGIC TGGIGGIGAC AAAATCICTC AGCATTIGCI TGICIGTAAA
GGATTITATT TCTCCITCAC TTATGAAGCI CAGITTGGCI GGATATGAAA TTCTGGGIIG AAAATTCTIT TCTTTAAGAA
TGITGAATAT TGGCCCCCAC TCTCTTCTGG CITGTACAGI TTCTGCTGAA AGATCTGCIG TTAGTCTGAT GGGCTTCCCT
TTGTGAGTAA CCCGACCITT CTCTCTGGCI GCCCTTAACA TTTTINCCTT CATTTCAACT TTGGTGAATC TGACAATTGT
GTATCTTGGA GITGCTGTTC TCGAGGAGGC AACCTTTGIG GGCGTTCTCT GTAATTTCCC CGAATTTGAA A

SEO ID NO:2376: (Length of Sequence = 324 Nucleotides)

CCAGCCCTCC CTCAGCTGGG AACACAGCCA GGTGCCCTCA GACCCCTGGN TCTGCACAAG GGGGGCCTGC CCCCTCGCCC CAGCTATATA CACGACAGCC CATCCTGCTG GCCGTGGACA AAAGCTGGGA GCTCCTGTGC CCAGTCAGGA GCCCCTACAG TCCACCAGCT GCGCGGCCGG GTCCAGGGGC CCACTGTGGT GCCAGCNAGT TINTCAAAAC CNAGGGCCCA GCCCCAGCTG GCNCCTNGCC AAGCCCCAGG CCTGTTTGCT GGGATGGAGC CTCCACACTG AGGCTGGTAA AAGCTTGAAC TCAACAGCAG CAAT

SEC ID NO: 2377: (Length of Sequence = 357 Nucleotides)

GTTTATGTTT TTATTTATGT ATTTTAACTG ACTTATTTGT GTATCCCACT AGAACAATAC ATTCACAATA TACTTGCAGA
ACTGTGCCTG GTGCGTCATG GGAGCAGAGA ACTTGTCCAG TGAATAGTTG TTGAAGAAAG GAGTAAAATC TCCCCCAAAC

CCAGACITCA TGIGAAGGIG GCIGCITCIG GGGIGATGGI GGCTGGAGAG GCAGACTTIG AGGCTGCCAT GCTCTTATIT TCAGAT

SEO ID NO:2384: (Length of Sequence = 165 Nucleotides)

TTAAGACAAT AATGAAAGAT TCTGTACAAA GITACCAAGT CTACAGGCTG AGCGAGCCAA GGGTAAGTGG GGCCTGATCC
TTGTGGACGA ATGTNCCCGG GAGAGCTGGC CTCACCTGGG GGAGGCACGT TGAAAAAAGTA CACATTTACA GGGCTCGGGA
AAGGC

SEO ID NO:2385: (Length of Sequence = 297 Nucleotides)

GGITTINATT CATICACTIC TATIAACCIC TCTAAAGGAA ATTGGGCACC TGTAATCCCA GCACTITGGG AGGCTGAGGT
GGGTGGGTCA CTITNAGGTC AGGAGTTCAA GACCAACCTG GCCAGCATGG TGAAAACCCA TCTCTACTAA AAATACAAAA
MITAGCCAGG CTGGTGGTGT TCGCCTGTAA TCCCAGCTAC TCAGGAGGCT GAGGCAGGAG AATTGTTTGA ACCTGGGAGG
CGGNGGTTGC AGTGAGCTGA GATCGTGCCA CTGCATTCCA GCCCAGGGTG ACAGAGT

SEO ID NO:2386: (Length of Sequence = 290 Nucleotides)

AAAAAATAAA GIGAATITAT TGGITCATGI AACTGGAAAG TCTCATGAAA ATGICAGCIT CAGGAGAAGC TTGACCCAGC AGCITCATGA TGTATGGAAA TACCTGGGIT TITTGITTCT NCTCTGCTAC TGTGGTATCA GCTTTATTCC AAGTCTGGCT TCCTTTGTTG TTGCAAAATG CTTTGTCAGA AGAAGCCTGG GTCCATCTGT TAGGNTTAAG TTTACTCTGT ATGCTGTAGT AGGGCTATG ACAAGATTAG GAAGTGTATT TTCTCCTCCC ATATTAAAAG

SEO ID NO:2387: (Length of Sequence = 356 Nucleotides)

GICATCIGIA TIGICACATG AAAIGCACAT CCAAAACGGG TGACITGGAA ACGACCIATT AGGICACACG GAGICCGGCC CCIGGGGGCA AAGCCICATC GAIGCCCACG GGCGGIGGCC AGCACITTCC TIGGGCIGIG GCGIGIGCAC CCGGCCICCC CAGCGGAGAG TCAGCICACA CCCCAAGAC TATAGCICTC TGGCAGCAGC TCCCAAAACG CACTIGAGGA ACCAATAATT CCTIGGGGGI TAATAGCIGI TCCCCAAGAA AAGGGITCIG TGGGICAAAT AAGITTAGGA AAACATGGGI TAAAGAAGGI TTAGGCAAGA AGCITTTCIA TAGGCCTTIG TCAGAG

SEO ID NO:2388: (Length of Sequence = 226 Nucleotides)

ATTATTEGTA TAAAAACTTA AGACGCATT AGAATTCTTA AGAAAAGGTG TAAAATTTAA AAAGATGTGC AAACAACAAA GAATGCCCCGA CCCTGAACCA GACCTAAAGC ACCTTCCANT TCCTCCACAC ATCATGCCCC AACACCATCC AGCCCAATCG GACACCAGGA CAGTGAGGGA CGGTGGCTG TTCAGTGGGC AACAGATCTG GAACGAAAGA TTTTCA

SEO ID NO:2389: (Length of Sequence = 250 Nucleotides)

CCCAGCTAGG CCTTGCNATG GCTNCAGTGA GGAGAAATCC CGGGAACTGT ATTGACACAA AGATTCTNAT TGCACTTGTA
TTTTTNTATT AAAGTTTGCA TGGTTTCTAA TAAAGGATTC AAACATAAGT TTGTAGTGAA ATGGCCTGCN AGATTCCAAG
GGCTTCTCTN GAAGGGGGAT TGNGCTGCAN TGTAGATTIN CCTCTGAAGG AGGCTGGCCC CAAACTTGGN CCTCCTCATG
ACCCCCTCCT

SEO ID NO:2390: (Length of Sequence = 371 Nucleotides)

CCTITITCIG GAGAACGGG TCTCGCTATA TTGCCCAGGC AGGICTCGAA CTCCTGGGCT CAAGCTATCC, TCCCGCCTCT
NAGCCTCCGT TTCCAGAAGG TCACCAAGTA ATATCTGCNT TTCATCAGTT GCAGTTAAGA TTTTNNTTTC TTGAAATACT.
GGTTTTCAAA CAGATCAGAA TTACCTGGGG AGCTTGTTTA AAATATAAAT GCCCCAAGGC CAGCTCCAGG ACATTCTGAC

TOCATAGGTA TGTGGTAAGC CCAGGGAATC CAGGTAAGCT CAGGTAAGCC CAGGGTAAGC CAGGGAATTG TTAACAGGAA GCTGGTGGGT TTCTGGCACC TMGACANCGA CTGAATTCTA GGTAGCTTGC C

SEO ID NO:2391: (Length of Sequence = 200 Nucleotides)

CAGTICAGCA GGCTATGAAA TITGITGGGC ATATAAANAA CIGGAACTIT CAACAGGGTG GTITTGAAAC TAGNGCATTA ACCAATAAAT GNCAAACCCA CAAGGACAGT GCATTGTGTC ACATAGANGA TCTGGAAAGT ACAGCTGTAA ACTATAATCN CCAGTCTCTG AGTTAGCACC TTTCCACGNT AGTCTCTTAC

SEO ID NO:2392: (Length of Sequence = 234 Nucleotides)

TOGOTGAGGT GITTGGTTTG GAATAGGGAA AAAGGTAAGA GACTAACGTG GAAAGGTGCT AACTCAGAGA CTGGAGATTA
TAGTTTACAG CTGTACTTTC CAGATCTTCT ATGTGACACA ATGCACTGTC CTTGTGGGTT TGTCATTTAT TGGTTAATNC
TCTAGTTTCA AAACCACCCT GTTGAAAGTT CCAGNTATTT ATATGCCCAA CAAATTTCAT AGCCTGCTGA ACTG

SEO ID NO:2393: (Length of Sequence = 337 Nucleotides)

TCCAGAGGCG GATTCAGAAG AAAGGAGATC CACATGAAAT GAAGATCACC TCTGCCTATC TACAGGACAT TGAGAATGCC
TATAAGAAAA CCTTTCTCCC TGAGATGAGT GAAAAAATGTG AGGNTTTACA GTATTCTGCA AGGGAAGCTC AAGATTCAAA
AAAGGTGGTA GAGGACATTG AATACCTGAA GTTCGATAAA GGGCCGTGGC TCAAGCAGGA CAATCGCACT TTATACCACC
TGCGATTACT GGTTCAGGAT AAGTTTGAGG TGCTGAATTA CACAAGCATT CCTATCTTIN TNCCGGAAGT CACCATTGGA
GCTCATCAGA CTGACCG

SEO ID NO:2394: (Length of Sequence = 211 Nucleotides)

CARATGITIA TITIATATAC ARAGAATIAT CATGGITITN CATIGAGIAG ATGCCCCGGA TAATCCTCTG AAGGAAGAGC ATTIAGTCCA ACTTAATGAA ACCGATATCC TTCGCGTACT GACGGAAACA CTGGCGGCAC ATATTGAGGC CATATTTCCG GATCANACCG TGCCGGTTTG AACAGACACG ACAAGAGCGA GAACCCTGCC C

SEO ID NO:2395: (Length of Sequence = 335 Nucleotides)

CTGAAAGCTG TAACACCCTC AGGIAATAAC AAAAGGGATT TITATTTCAC AGCTAAAGGG AAAATAGGTG GAGAAGTTAA
AAAATAATGT CTGATCCTGT TCCTAAGTTC CAAACTATAG CCAACACTCT GATGCTGCTC TTTTTCTTGT AGGACCAACC
GTCCCAGTTT GCCTGGGACT TTCTCATTTT TACAGAGTCC CAAATCCTAG GAAACTGGAG CAACTGGTAC AACTGGTCAC
CTACTCTTGC CCCTCTGGTA AATCAAGNCA ACTGTGACCA TCCAATGTGC CATCTTACAG GGNAAAGTTA TAACCCACTA
TTCCCCTATA ACATA

SEO ID NO:2396: (Length of Sequence = 223 Nucleotides)

AGGGAGATOC AGCTOCGTOC TGCCTGCAGC AGCACAACOC TGCACACCCA CCATGGATGT CTTCAAGAAG GGCTTCTCCA
TCGCCAAGGA GGGNGTGGTG GGTGCGGTGG AAAAGACCAA GCAGGGGGTG ACGGAAGCAG CTGAGAAGAC CAAGGAGGGG
GTCATGTATG TGGGATTACA TTTTTTTTTT AAAGAAAGAA TAAATTAATT GTGATTAAAG TTG

SEO ID NO:2397: (Length of Sequence = 379 Nucleotides)

CCATTACAAA GAATGIGGCA ACTIGCTINI NCCIAAAAGG AGGAATTGGA ACTAGAATGI GIGACTCTGI GGGGACTGCA
TAGCITTGIT AATTGACCIA TAGCIAAACC TIPATGIGIT TGTGIGICIA TACATTGCIT TCCCCATTTC AAGACACCA
GACGCIATTA CCAACATTIT CCTGIGCATT AACCICTGCA TGTGAAAAACT TITAACAGIT ACTGAACTAT GTAAATATGT

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GAATTITTT ATTTAGGIGG ATGCATTTT NGTCTGTTTA CTGCTCTTCT CAGCTTTATT CAATAAACTT GCATTTTAAG
GGTTGTATTG GCAATTITAA CTTAAAATGT GCATCATGAT GGAAGGTGCA GACCTTTTT

SEO ID NO:2398: (Length of Sequence = 421 Nucleotides)

SEO ID NO:2399: (Length of Sequence = 392 Nucleotides)

GATAAGCTTG ATATCGAAAG TNCCACAATG GGTCAGCTGT ACCAGGAACA CCATGAAGAA GACTTCTTTC TCTACATTGC CTACAGTGAC GAAAGTGTCT ACGGTCTGTN AAGCTGCTGC CCCTGAGCTG GAGGGGGGTC TCATTCTACA AAGAGAGAGG TGGCCCCCCT TTCTTGACCT CCTCCTCCTT CAAGCTCAAA CACCACCTCC CTTATTCAGG ACCGGCACTT CTTAATGTTT GTGGCTTTCT CTCCAGCCTC TCTTAGGAGG GGTAATGGTG GAGTTGGCAT CTTGTAACTC TCCTTTCTCC TTTCTTCCCC TTTCTCTGCC CGNCTTTCCC ATCCTGCTGT AGACTTCTTG ATTGTCAGTC TGTGGTCACA TCCAGTGGAT TG

SEO ID NO:2400: (Length of Sequence = 366 Nucleotides)

CTGGGGAAGG ACTGGCACAA GTTCTGCCTIN AAGTGCGAGC GCTGCAGCAA GACGCTGACG CCCGGGGGCC ACGCCGAGCA TGACGGGAAG CCGTTCTGCC ACAAGCCGTG CTACGCCACC CTGTTCGGAC CCAAAGGCGT GAACATCGGG GGCGCGGGCCT CCTACATCTA CGAGAAGCCC CTGGNGGAGG GGCCGCAGGT CACCGGCCCC ATCGAGGTCC CCGCGGCCCG AGCAGAGGAG CGGAAGGCGA GCNGCCCCCC GAAGGCCNCA GCAGAGCCTC CAGTGTCACC ACTTTCACCG GGGAGCCCAA CACGTGCCCG CGCTGCAGCA AAGAAGGTGT ACTTCGCTTG AGAAGGTGAC GTCTCT

SEO ID NO: 2401: (Length of Sequence = 385 Nucleotides)

SEO ID NO:2402: (Length of Sequence = 392 Nucleotides)

AAAGAACITG GTATCTCTAT TAAAGTACAT GANCCTCCAA GGAAAATAGA GCGATTTACT CITCTCCAAT CAGTGCATAT
TTACAAGAAG CACAGAGTTC AGTATGAAAT GAGAACACTT TACAGATGTT TAGAGTTAGA ACATCTAACT GGAAGCACAG
CAGATGTCTA CITGGAATAT ATTCAGCGAA ACTTACCTGA AGGGGTTGCC ATGGAAGTAA CAAAGACACA ATTAGAACAG
TTACCAGAAC ACATCAAGGA GCCAATCTGG GAAACACTAT CAGAAGAAAA AGAAGAAAGC AAGTCATAAA GCCTTCAGGG
AGGCCATTTT TGCCTAAATT TTGAAATGAG GGTGGGCCCAG ATGAGTATGT TTAAGTGGAG AGTGCTTTCC AG

SED ID NO: 2403: (Length of Sequence - 179 Nucleotides)

SEO ID NO:2404: (Length of Sequence = 399 Nucleotides)

TTCCCAAAGT GGITGTAACA TTTTACACTC CTACTAACAG TGCATGGGAA GCCAGITICT CTATATCCIC TCCAACATTT GGIGCIGICA ATCITTAAA ATTTTAGCCA TTTTTGIGGI TGTATAGTGI TATCICATTG CAGITTTAAT TTGCCGATCC CTGAATGIGI ATATGIATTA TATAATATAT ATATNATNCT TTCACTTATT TTGAAGTAAT TTCAAAGTTT CCAGAATAAT ATCAAGAACT CCTGTACTCC CTTCGCCAGA TTCTCCAATT GTAATGITTT ATTGCATATG CTCCATTGCC CATCCCCC TCTACTTATA GCTTGCATTA GTGTTTTCCT GGAACCNTTA GAGATGAAGG TGGAAAAAAG GATGCGGGT

SEO ID NO:2405: (Length of Sequence = 404 Nucleotides)

GGAACAGAGT GACCIGACCA CCCIAACATC AGCIGCATAC CAGCAGAGCC TGACIGITCA CACAGGAACT CATCICCICA
GCATGCAGGG GAGCCCIGGA GGACACAATC GCCCAGGCAC CCICATGGCA GCIGACAGAG CCAAACAAAT GITTGGACCC
CAAGIGCITA CGACCCGGCA CIACGIGGGC TCAGCAGCTG CITTIGCAGG GACACCAGAG CATGGACAAT TCCAAGGCAG
TCCIGGIGGT GCCIATGGGA CIGCICAGCC CCCACCICAC TATGGGCCCA CACAGCCAGC TIATAGICCT AGTCAGCAGC
TCAGAGCTCC TICGGCATTC CCIGCAGIGC AGITACCTAT CITCAGCCAC AGCCACAGGC CIATTGCIGT GCATGGGCCA
TTITT

SEO ID NO:2406: (Length of Sequence = 280 Nucleotides)

AAGAGAGAAC ATTITATITG TCIATAATTA GGGTAAACAG TTGGGTAAAA YCTTACTAAA AGAAAGITAA GGTTGTCITA ACACAAGATA TATAATGACA TAAATYAGIT AATTAAATTI YAATTAAAAM CAGCTGCTIT GGAAATCCAA CATGTATACT TCAAAATAAT TTACCTAAAT AACTTATGAA AATGGATGIT ATTGTACAAC TCATCTCCC TTATAAAAGG NGAACAAAGG ACATAGGAAA GCTGAAAAGA AGGCTAGATG AAGATACAGG

SEO ID NO:2407: (Length of Sequence = 350 Nucleotides)

TCCAAGGCA ATATAAATTA CAGTATGCAA AACATACTGA CTGGCTGAGG TAAAACGCAC TGCTCCTGCC TCACGTCACC ATGAGGGGAA ACACACATAT GCTTTTAAAA ACATCTGGCT TATAAAAAAA CATCCCCTAG AAAGGCCTCC AGAGAGGGGCC TGTGAGGCTC ACCCTCTGCC GCGCCTCAGGA GGACCCGCCG GCTCAGCCCT GGCCCCTCCA CTGCAGCCAT GGGTGGCGCC TCCCCCTACT GCCTGCCCAG GGCTCTGTCC AGGTTGCTCT TGATGGTGTC GAGGAAGTCC GTGGTGTTCA GGAAGTGCTC GTTCAGCTTC ACATTGCTGA GGCCGTGAAAT

SEO ID NO:2408: (Length of Sequence = 239 Nucleotides)

ATMENTITIGE GGTCGCNAGA AATGGATGTE CGGAAGAAGA AGAAGAAAA AAATCAGCAG CTGAAAGANC CAGAGCCAGC AGGGCCTGTE GGGACAGAGC CCACAGTGGA GACACTGGAG CCTCTNGNAG TCCTGTNCCC GTCCACCACC AAGAAGAGA AGAAGCCCAA AGGGAAAGAA ACCTTCGAGC CAGAAGACAA GACAGTGAAG CAGGAACAGA TTAACACTGA GCCTCTAGA

SEO ID NO:2409: (Length of Sequence = 331 Nucleotides)

TCICITICAAG AATTICAGAC CAATCGACCG TCCTGTCTCT TTAAGGCTTA GGAAGAGCAG TGTGGCTGCC CCTTTAAGGA GGCGTTGCAA CAARCCATAT TGGACAGACG ATGGGGGCGA CAATCGGGA CCCGACGGGC CTCTGACTCC AGCAATATAG CGAATCAGCG GCTTTCGGGA ATACATTTTT CGGAAAAAGA CTTCTTCCTC GGTTTTCTGC TCTGCACACG TTGAAATTTT

492

CCCCAGTTTT TCCTGCAGAT CGGGAGTCGA GCAATGCCTA CCCCCGCCTC CCGCACCAGT TGGGCGCTCC CGGATGATGC CCTACCCCTT T

SEO ID NO:2410: (Length of Sequence = 135 Nucleotides)

CTGCAGGACT TGCGAAGAGC GTGCATTCCC AGTGGGCGAA CGGGAATTCG AACGGAGAGA GGGTTATCTT GTGGGGGGCT ACCCGTGGAG AGCAAGGCGC CCCCAGGGGT TGGATCGGTG AAATTNAGGT CGCCC

SEO ID NO:2411: (Length of Sequence = 330 Nucleotides)

ATGCTGCTCG GITCTCTTGT CCCCCCAACT TTACCGCGAA GCCCCAGCCT CAGAGTCCCC TCGTTTCTCC TTGGAGGCGC
TGACGGGTCC AGATACGGAG CTGTGGCCTTA TTCAGGCCCC TGCAGACTTT GCCCCAGAAT GCTTCAATGG GCGGCATGTG
CCTCTIVTCTG GCTCCCAGAT CGTCAAGGGC AAATTGGCAG GCAAGCGGCA CCGCTATCGG AGTCCTCAGC AGCTGTCCCC
AAGCTGGAGA AGCGACCCTG CTGGCCCCCT CAANGGAGGC AGGAGGTGGA CTCACCTGTG CCTCAGCCCC CCAGGGCACC
CTAAGGATCC

SEO ID NO:2412: (Length of Sequence = 583 Nucleotides)

TECACCEGTE CACCAGGTEC COGTETEGAT TETNACAGNI ACGTEGGTINA TGAAGGTAAC CACCTACCGI GTECACGTEG CONAGCAGCA GGACGTECAC CTEACTETINA CEGAGTCTCG GCAGCATGAG CTCTCGCCAG ACTCGAACTT GCCCGTECAG CTCCTCACCA TCCGTGTGGC CAGCACCAAC CCTGCTGTGC AGGCCTTTGA CATCTGGCTG AACTCCACTG AGTACGGGGA GCTCTGCGAG AAGCTCCGGG CACCCATCCG CAGGGCAGC CATGTGGTCA TCCACCAGAG CCTGGGCGAC CTNTTINNTGG AGACATTTGC CTCCCTGGTA GAGGTCAACC CGGCCTACTC AGTGCCCAGC AGCCAGGAGC TGGAGGCCTG CATAGGCTTG CATGCAGAACA CGTGCCAACG TGAAGNTGGT GAAGACCTGC CAGGAGTCAG CCACAGGGGA GTTCCAGCAG TNTTAATTINC CGCCCCATGT TGGTGGCTTA ACTTGATNGG GAAAGTGGNT TNGNCAAGCG GCAAGACCCC CTTGGGNCTT NAAACTTGNT TGGCAAAACGG GGTNCCTGCA TGG

SEO ID NO:2413: (Length of Sequence = 203 Nucleotides)

TOGTICCTCCC ACCCCTAGC CATGCAGNEG TGAATNEGGG AACCCAGGNN GGGGGGGGA AAGCTCCAGG CCACCTTNAG GGAATCCACG AGGGTCTTTC TACCAGGAAG AAGTGCCGCA GCTGCGTGGC CGCCGAGACC ACGCGGGAGG TGATCTGGTG GGACAAACGT TCCGTCTGCT CCCGAGTCAG GAGATCGAGT CTC

SEO ID NO:2414: (Length of Sequence = 92 Nucleotides)

AACGGCAGG ATGGGCCTGG GAAGTCCAAC CCCACGCATT TGGGCTCAGC CTTGGACATG GAGGCCTGAC AGCTGTTGTC

SEO ID NO:2415: (Length of Sequence = 401 Nucleotides)

CTTTICCCTT CIGIGENCCA AATGCANCAT CTINATACAC GITGCITAAC CTAGAANCGI GGCTCCACCG TGAATTCIAA

TIGGICCGIG CIATCGAGGC ACIGICCCCI TAACTGGICI CGCTCCAGIG GCCCCNACIG CITTICTICC TCTTCCAGNA

ATGCCTCTTC GGGCCCAGAG TTCGAATCTC GCGATCGGGA TGGGGACGGA GTACCGGCCT GGGGTGTCCC AGAGCCCGGA

CTGAGCTGGG GAGTCAAGAC CTCGGGGGAT GAGGGCTGAG CAAGTCGGAG TCGTAGGTCC AGITCTTCCC CAGCTTCTCC

TGTCTCCAAT CIGITGGGTT CTTGGGGTTC TTCGTCTTCC AGCGGGGGG AGCTGCTGGT GGAAGAGTCC TCCCGGAIC

SEO ID NO:2416: (Length of Sequence = 245 Nucleotides)

ATGIRATACA GIGIAGAAAG CGATCATGIC ATAAGCAATG ATTCIGIACA ATCAINCNGC AGAAAATTAG TITIGGAGAA TICTIGGIAA TIGAAGACCA GCAGAGCACC CCICCCCACC CGCCCCCTAA AAGIGCTIAC AATTIACAGG GATYCTITIC TITITICAAAG ACCCAAAGAY ACGIGGICAG AAAAMAAAAG CITGAAGICT CAATGCCTAA TGICGIGCAC ATTKNACAGG GACGC

SEO ID NO:2417: (Length of Sequence = 384 Nucleotides)

GGITTIGCAA GAIGAIGGAA CAICCCAIAA GCCCAGGIGI GCAGCIAACC TITAGAAGCI GGAAAAGGCA AGGAAACAIA
TICIGIAGAG CCICCAGAAG GAACACACGI CIGCACACAC TITGIITITA GCICAGIGAA ACIGAITITIG GACIACIGAC
CTICAGAACI GIAAGAIAAA TICCIGITGI TITACGITTIG TOGIGITATA GAAGIIACAG AAATGAAIAT ACITACCGIA
GTITAGAGAG AGAIGGGAG AIACITTITI TICCCCCTIC TITTIGAAGG GAGGIAGGIC TCCTTAACIC CAGAGGAAAG
ACITGICITT CITCATATAG GGGCCCITTG ATTCITAAIT CATGGGAGIT GITTAGGAGA TIGA

SEO ID NO:2418: (Length of Sequence = 1645 Nucleotides)

GTGATGGCTG CCTTGAGGGG GACCATCATG TCGGAGACCG CATTGGTGCA GGTCTCACCC CACAGCCCAT GCCCAGCCTC CTGCAGACTC AGGTCATCCA GCTGGTCGAT GGCTCTTTGC ATACCTGGTG CCTTCTCCTC TCGGGCTTGG CAGGCTTCTC TGGGGGCTTC TCAGATGACT CTTTTGCCTT CTTCTCTGTC TTGGCTAACT CCTTGGCCAG CTCTGAACGT GCCTCCTTGG CTCCCTCTTC TACCACCTCC TCCCGTTTGG CCAACTTGCT CACGGCCGTC TTGGTAGTGG CTTTGAGGCT CTCCTTGCTA TCAGCCCGCT GITTGATTIT GCTGGGCTTG AGGITGGTAG GCACAGCCCC AGAAGCCAGG NCCTTCTGCG TGGCCACAGG GTAACGCAGG AAGTCCAGAT GCCGAAGCTT TTCTAGGCCC TCCAAGATCT TGTTTTGGGG AGCATTTCCT GGAAAAAGCA CACGCACAAT CITCICAGIG GGATIGGCIG GTAGCCAGAC CACCAGAGCA GTGATAGAGG TAAGGTAGGG CACGGAGATC TCAGCCTCCT TCCCATTGGG CAGCACGATG CCTGINITGG CITTACTATT GCCTGCCCAC TTTTGCATGA GGAACTGCAT CTCCTTGCTG TCCTTGACAG GGTTGAGGAC ATACATGTCC AGCCGGCCCA CACCCATTIT GTGGAAGAGG GTCAGTGGCT CAATGGTATT GCTGACCACA CGATATAGAG GCTCAGCCTG GATGCCCAGG CGGTTTAAGT GCTGCAGAGT GAGGCAGGCC TCCTCAATGC TACGCTTGGC TTTCCGGGAG GCATCAGGAA GCCGCAGCTT CTCAGGCACG TTGAAAAAGA CAACTCCAAG CICAGGANAG ATAAGGITCT TCACCCAGIC GCTGTAACTG CTAGAGCCCT GGNACTGCTC CTCCTCTAGC TCTGCCACTT TECGCTGCAG TAGTCCATTG ATGCCTGGCA GETTGTCTGC CCCAATGTGT GINAGTAGCA CCGAGTCAAT GCGGTCCAAG TNCCGTACCA GCTTCCAAAA ACAGGACTTG CGATCAGAGC CACCATCCAC CAGGATGTTG AAACCATTGA CAGCAAAGAG GGCAGAGTCC CCACGACCAC CTGGGAAGAT GTAGCAACAA GGCTTGGAGA GCTTGAGGAA GCCCCCTGAG GTGGGGGGGT CTAGTAGGTC AAATGGGGAT GGCACGTCCA CAGTCTCAGA GACATACTCG GAGAACTCAG CCACGCCGTC CATGGTGGGC AGAGTGGGCT CAGGGTTTAG CCGGAGGTGC AGGGTCTCTT GGGAACTGGA TAATCCCAGG TGGCTCCAAT CACCTTCCCC TAAGCAGGAC ACGGTAAGGA AGGCCTGTAT CCCAGGGTCT CTATTGCTGA GCAATTGGGA AATCTCGGGG TTGTGAAGGA CCTGGGCAAA GITTTCATAT GAGIAGGIGC CACTCTGIAG GATGAGGICT CCCCCAGGCT CTAAACITTG CCCACTCAAG ATTAGTAGTT TATAAGCTGA TGAGCTGCTA AGAAGATGAT GAACCTCAGA GCTGATGCTG TCTGCACTGG GATTTACCAG GATGATGGTC TCTAGGATCT CACTCTGGTG GCAAAGGGTC CTCTG

SEO ID NO:2419: (Length of Sequence = 837 Nucleotides)

GEAAGGATGA GAAACAGATT INTECTCACT TCATGGGCTG GCCTGGAATT GACGATGGTG CAAACCCAAA INATCCTGAT GIAATINATG AAGATTATGG AACTGCAGGG AATGACATCG GGGACACCAC GAACAGAAGT AATGAAATCC CITCCACAGA CGCACTGAT AAAACCGGTC GGGAACATCT CTCGGTCTAT GCTGTGGTGG TGATTGCNCC TGTGGTGGA TTTTCCCTTT TGGTAATGCT GTTTCINCTT AAGTTGGCAA GACACTCCAA GTTTGGCATG AAAAGTTTTG TTTTGTTTCA TAAGATCCCA CTCGATGGGT AGCTGAAATA AAGGAAAAGA CAGAGAAAGG GGCTGTGGTG CTTGTTGGTT GATGCTGCCA TGTAAGCTGG ACCTCGGGA CTGCTGTTGG CTTATCCCGG GAAGTGCTGC TTATCTGGGG TTTNCTGGTA GATGTGGGGG GTGTTTGGAG

GCIGTACTAT ATGAAGCCTG CATATACTGT GAGCTGTGAT TGGGGAACAC CAATGCAGAG GTAACTCTCA GGCAGCTAAG CAGCACCTCA AGAAAACATG TTAAAATTAAT GCTTCINITIC TTACAGTAGT TCAAATACAA AACTGAAATG AAATCCCATT GGATTGTACT TCININCTGA AAAGTGTGCT TTTTGACCCT ACTGGACATT TATTGACTTA ATTGCTTCTG TTTATTAAAA TTGACCTGCA AAGTTAAAAA AAAATTAAAG TTGAGAACAG GTATAAGTGC ACACTGAATA GTCTAATCTA CATGTAACAC ATATTTINNGT ATGATTTTCT ATACTCTAAT CAGCACT

SEO ID NO:2420: (Length of Sequence = 1843 Nucleotides)

GAAGCTCCGG CCCAGGTGGC CGCTGGCTGC TGAGCTCACG CCAAGGTGCG GCTGTGGTGG TGGTGGTGGC GGCTGCAGGC

TTTGCTGCTG CTGGATGTTT GCTGGCTGCA GGTTCTGCTG CTGCATCTGT AAGTTTTGTG GCTGCACCTG CTGGGTCTGC

TTTGCTGCTG CTGGATGTTT GCTGGCTGCA GGTTCTGCTG CTGCATCTGT AAGTTTTGTG GCTGCACCTG CTGGGTCTGC ACCAGGTGAG GCTGGGTGGC CAGCCGGGTG CTGGGCAGGC CCTGGTAGCT CATCATCTGG GACAGGGCGC TGGCAGCAAG GCTACTGTGC AGCGGGCCTA CCATGCCATG CTGCAGGGAG GGGGCCTGTG TGCTCAGGGG GCCTGGTGCC ACACTCCCCC GCAGAGGGTT GTATTGGTTC GGCACCATGC CGCTCTGCAG CCGGGACAGC CACTCGCATT GACCATTCAA ACTGGTGGAC COENCACAG TGAAATTCAG GGCCCCTCCG CTGCTNGAGC CCAGGACGGT GCTGGTGCCA GAGGCCCACAG GCAGGTGGGA GAGACGAGGT GGGCCAGTINT TAAAGGCCAG CCGGCCGCCC CCACCCANCG CCGCCATYTC GGGCTTGGCC GCCACGTTCA GGTNCCCNAT GCCCAGGTGG GTGTCGGGCA TYCCAGGCAG GTGGTTGAGG GGCACGGACG GAGACTGCTG GAACGGGGAG GGCAGNAGTG GCGGCGAGGC CACGTCTGAC AGGTAGCCAT GGGGTGACTC CAGGGAGTCC ACGGGCGAGA GCATGCCGGA GCTGTCCAGC AGGCAGNCCT TGCCGTCCTG GGACTTCTTC CTCCGTGCCT TGAGGTCCTT GGCCTCCTTG CTTCCACAGG CCAGGCCTTT GCTGCTGGGC TTGCGGACCT TCTTGCCCTG CACGCCGGC TTGAGGCTGC CCAGGTAGCC GTTGGCCGAG CAGAGCGNGG GCGACAGGGT GGGCGTGCCC CCCAGCGGGC TCCGTGCAGC TGCGGGCTGC GCACCAGGTT GTACTCGTCC ACCASCCTCA CGATGTCGTG ATGCATGCNC TCCTNTGCGA TGTCGCGCG CAGGCGGTCC ATATGATCCG TGATGTCCCC GTTGGCAAAG TGGTCCAGCA GCACCTTGGC GGTCTCGTAG CTGCCCTCCC GGGCGGCCAG AAACAGGGT GTCTCCTCCC TETTETTCTG CATATCTTTG TTAGCCCCGT TCTTCAGGAG CACAACTGCG GCATCCACAT TGTTCACNGC GGCGCCCAG TGCAGGGCG ACTTGCCCAG GTNATCTACG GCGTTGACGT CGGCGTGTGA GTTGATGAGG TCCTCCAGCA TGCCCTCCAC GGCCAGGCGG GCAGCCAGGN TCAGTGGCGT CGTGCCATCA TGCATGCGGG CATCCAGGTC TGTGGCTCGG TTCCGGATCA GGATCTTGGA AGACACCTTG TGCGTCGGCA GACACAGCCG CATGCAGCGG GGTGCGGCCC ATGTTGTCCT GGATGTTGGC ATCIGCGCIG GCCTCCAGCA GGCGCTTGGC GGCATCAGAG CGTGAGTAGC GGGCGGCCAG GTGCAAGGCG GTCTCGCCCG INCOGNICITY CTGGTTGTGC AAGCTGGGGC CCTGGTAGAT GAAGTCGGAG ATGACGGCGG GCGCGTCCTC CTCTTCCTCG CTGTTGCCCG TCTCCAGGCC GCCCCCGCTG CAGGAGGCGA TCATGAGGCGG GGTGAAGCCA TCAGGCCCGC GGACATTGAC CTCCATGCAG TOGGCTICAA CCTCACCCTG GGGCGGTGTG GGGGCCATGG CANACATGCG CAGGTCAGCG GCATCCAGGT

SEQ ID NO:2421: (Length of Sequence = 1452 Nucleotides)

GIC

CCAGCAACTC AAATTCACCA CCTCGGACTC CTGCGACCGC ATCAAAGACG AATTTCAGCT ACTGCAAGNT CAGTACCACA GCCTCAAGCT CGANTGTGAC AAGTTGGCCA GTGAGAAGTC AGAGATGCAG CGTCACTATG TGATGTACTA CGAGATGTCC TACGGCTTGA ACATCGAGAT GCACAAACAG GCTGAGATCG TCAAAAGGCT GAACGGGATT TGTGCCCAGG TCCTGCCCTA CCTNTCCCAA GAGCACCAGC AGCAGGTCTT GGGAGCCATT GAGAGGCCA AGCAGGTCAC CGCTCCCGAG CTGAACTCTA TCATCCGACA GCAGCTCCAA GCCCACCAGC TGTCCCAGCT GCAGGCCCTG GCCTGCCCT TGACCCCACT ACCGTGGGG CTGCAGCCGC CTTCGCTGCC GGCGGCCCACC GCAGGCACCAC GCAGGCACCAC GCAGGCACCAC GCAGGCACCAC GCCCAGGAGGAT GATGGCGAGA AGTCGGATTA GCAGGGGGCC GGGGACGAGA GGTTGGGGA GGGACAGAGA GGCACCGGG GGCCCCAGC CAGCTTGCAG GCCACCGGAGA AGTCGGATTA GCAGGGGGCCC GGGGACGGGA GGTTGGGGA GGCACAGAGA GACACAGCGGAACAGA GGCACCGGGAGA GGCACCAGCC CAGCTTGCAG GCCACCTCTA

GCTGCTGAGT CCACTGCCGG TGGTCTGTCT GGTCGTCCAG GTCAGGCAGA ACCACGGGCT CCTCGAACCG GAACTTCTTG

							GACGTGTGAG	
GCAAGNTAAG	GCCTGGAGGG	TCAGATGGGG	AGACCAGGTC	CCAAGGGAGC	AAGACCTCGC	GANGCARGCA	AGCCCCNGCC	
CIICCCCCGI	TTTGAACATG	TGTAACCGAC	AGICIGCCIG	GGCCACAGCC	CTCTCACCCT	GGTACTGCAT	GGACGNAATG	
CTAGCTGCCC	CITICCOGIN	CTGGGCACCC	CGAGINICCC	COGACCCCCG	GTCCCAGGTA	TGCTCCCACC	TCCACCTGCC	
CCACTCACCA	CCTCTGNTAG	TNCCAGACAC	CINCACGYCC	ACCIGGICCT	CINCCATOGO	CCACAAAAGG	GGGGGCACGA	
						TCCCCTTCCC		
						CIACCITGIC		
						TEGIGICIGI		
						GIGGGCTTAG		
CCAATAAAGA							L	

WHAT IS CLAIMED IS:

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1. A purified polynucleotide having a sequence designated as one of:

SEQ ID NO: 316 - 2421, except SEQ ID NOS 650, 1834, and 2073;

or having a sequence complementary thereto.

2. A purified polynucleotide having a sequence designated as one of:

SEQ ID NO: 316 - 2421, except SEQ ID NOS: 485, 650, 1834, 2073, 2092, and 2353;

or complementary sequence thereto or, for those sequences over 150 nucletides long, a portion thereof at least 150 nucleotides in length.

3. An isolated polynucleotide that includes a sequence designated as one of:

SEQ ID NO: 316 - 2421, except SEQ ID NOS: 485, 650, 1834, 2073, 2092, and 2353;

or complementary sequence thereto or, for those sequences over 150 nucleotides long, a portion thereof at least 150 nucleotides in length.

4. An isolated polynucleotide operably coding for a native human polypeptide or protein, which includes a region coding for the same amino acid sequence as a native human coding region corresponding to a sequence designated as one of:

SEQ ID NO: 316 - 2421.

- 5. The polynucleotide of Claim 4, wherein said SEQ ID NO is listed in Table 6 and is one of SEQ ID NOS: 316-2421.
- 6. The polynucleotide of Claim 4, wherein said SEQ ID NO is listed in Table 7 and is one of SEQ ID NOS: 316-2421.
- 7. The polynucleotide of Claim 4, wherein said SEQ ID NO is identified in Table 10 in a metabolic functional grouping and is one of SEQ ID NOS: 316-2421.

- 8. The polynucleotide of Claim 4, wherein said SEQ ID NO is identified in Table 10 in a structural functional grouping and is one of SEO ID NOS: 316-2421.
- 9. The polynucleotide of Claim 4, wherein said SEQ ID NO is identified in Table 11 in a developmental control grouping and is one of SEQ ID NOS: 316-2421.
- 10. An isolated polynucleotide coding for a human protein or polypeptide, which includes a coding region corresponding to the EST identified as:

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SEQ ID NO: 316 - 2421;

or a polynucleotide complementary thereto.

- 11. The polynucleotide of Claim 10, wherein the SEQ ID NO is 316-1000.
- 12. The polynucleotide of Claim 10, wherein the SEQ ID NO is 1001-1500.
- 13. The polynucleotide of Claim 10, wherein the SEQ ID NO is 1501-2000.
- 14. The polynucleotide of Claim 10, wherein the SEQ ID NO is 2001-2421.

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- 15. The polynucleotide of Claim 10, wherein said polynucleotide further includes the entire sequence designated as any one of SEQ ID NOS: 316-2421.
- 16. An isolated polynucleotide comprising at least 150 bp of a sequence of Claim 10 and wherein said SEQ ID NO excludes NOS 485, 650, 1834, 2073, 2092, and 2353.

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17. An isolated polynucleotide sequence, which hybridizes to a sequence designated as any one of SEQ ID NOS 316-2421, except SEQ ID NOS 485, 650, 1834, 2073, 2092, and 2353, or to a sequence complementary thereto, under hybridization conditions sufficiently stringent to require at least 97% base pairing.

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- 18. A polynucleotide according to any one of Claims 4-17, in substantially purified form.
- 19. A construct in isolated form comprising a vector and a polynucleotide according to any one of Claims 1-17

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20. The construct according to Claim 19, further comprising a promoter operably linked to said polynucleotide.

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- 21. A panel of at least 100 isolated polynucleotides having the sequences of Claim 3 or Claim 16.
- 22. An antisense oligonucleotide capable of blocking expression of any one of the polynucleotide-encoding sequences of Claim 10.
- 23. A triple helix probe capable of blocking expression of any one of the polynucleotide-encoding sequences of Claim 10 having at least a 10-base homopurine or homopyrimidine sequence, said probe comprising single-stranded DNA having at least a 10-base homopurine or homopyrimidine sequence and being adapted to bind to the major groove of double stranded DNA which includes said polynucleotide-encoding sequence.
- 25. The polynucleotide of Claim 1, wherein said SEQ ID NO is 913.
- 15 26. The polynucleotide of Claim 1, wherein said SEQ ID NO is 1039.
 - 27. The polynucleotide of Claim 1, wherein said SEQ ID NO is 1395.
- 28. The polynucleotide of Claim 1, wherein said SEQ ID NO is 1567.
 - 29. The polynucleotide of Claim 1, wherein said SEQ ID NO is 1667.
 - 30. The polynucleotide of Claim 1, wherein said SEQ ID NO is 1704.
 - 31. The polynucleotide of Claim 1, wherein said SEQ ID NO is 2089.
 - 32. The polynucleotide of Claim 1, wherein said SEQ ID NO is 2297.
- 33. The polynucleotide of Claim 1, wherein said SEQ ID NO is 2302.

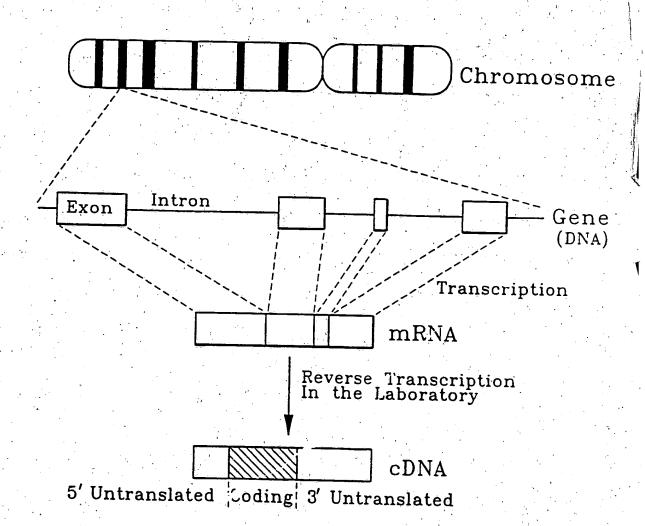


FIG. 1